

SAFETY DATA SHEET

1. Identification

Identification

Product name: ALPHA 1458

Additional identification

Chemical name: Alkyl (C12-16) dimethylbenzylammonium chloride

Recommended use and restriction on use

Recommended use: EC Intermediates & Surfactants

Restrictions on use: None identified.

Details of the supplier of the safety data sheet

Supplier

Company Name: LUBRIZOL CANADA LIMITED
Address: 3700 STEELES AVENUE WEST SUITE 201
VAUGHAN ON, L4L 8K8
CA
Telephone: 905.264.4646

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887 OR WITHIN CANADA 800 424 9300

2. Hazard(s) identification

Hazard Classification

Flammable liquids	Category 3
Acute toxicity (Oral)	Category 4
Acute toxicity (Inhalation - vapor)	Category 4
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1

Unknown toxicity

Acute toxicity, oral	0.0 %
Acute toxicity, dermal	0.0 %
Acute toxicity, inhalation, vapor	76.2 %
Acute toxicity, inhalation, dust or mist	97.2 %

Label Elements:

Hazard Symbol:



Signal Word: Danger**Hazard Statement:** Flammable liquid and vapor.
Harmful if swallowed or if inhaled.
Causes severe skin burns and eye damage.**Precautionary Statements:****Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/] equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTRE/doctor/ if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Specific treatment (see this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of fire: Use CO₂, dry chemical or foam for extinction. Water can be used to cool and protect exposed material.**Storage:** Store in a well-ventilated place. Keep cool. Store locked up.**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.**3. Composition/information on ingredients****Mixtures**

Chemical name	CAS number	Percent by Weight
Alkyl dimethyl benzyl ammonium chloride	68424-85-1	80 - 90%
Isopropyl alcohol	67-63-0	10 - 20%

4. First-aid measures**Ingestion:** Do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately.**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

Skin Contact: Take off immediately all contaminated clothing. Wash with soap and water. Immediately call a POISON CENTER/doctor. Launder contaminated clothing before reuse.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Most important symptoms/effects, acute and delayed

Symptoms: See section 11.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: CO₂, Dry chemical or Foam. Water can be used to cool and protect exposed material.

Unsuitable extinguishing media: Not determined.

Specific hazards arising from the chemical: Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. See section 10 for additional information.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

In case of leakage, eliminate all ignition sources. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

Environmental Precautions:

Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage
Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Ground and bond container and receiving equipment. Use non-sparking tools. Do not breathe dusts or mists. Do not get in eyes, on skin, on clothing. Do not get in eyes. Observe good industrial hygiene practices. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Launder contaminated clothing before reuse. Avoid environmental contamination.

Maximum Handling Temperature:

Not determined.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Keep cool. Store in a well-ventilated place. Do not store near potential sources of ignition.

Maximum Storage Temperature:

Not determined.

8. Exposure controls/personal protection
Control Parameters:
Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values		Source
Isopropyl alcohol	TWA	200 ppm		US. ACGIH Threshold Limit Values (02 2012)
Isopropyl alcohol	STEL	400 ppm		US. ACGIH Threshold Limit Values (02 2012)
Isopropyl alcohol	REL	400 ppm	980 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Isopropyl alcohol	STEL	500 ppm	1,225 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Isopropyl alcohol	PEL	400 ppm	980 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Biological Limit Values

Chemical name	Exposure Limit Values	Source
Isopropyl alcohol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEI (03 2013)

Appropriate engineering controls:

Use explosion-proof ventilation equipment to stay below exposure limits.

Individual protection measures, such as personal protective equipment

General information:	Use explosion-proof ventilation equipment. Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eyeface protection:	Wear tight-fitting goggles or face shield.
Skin Protection	
Hand Protection:	Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water.
Other:	Wear apron or protective clothing in case of contact. Chemical resistant boots. Do not wear rings, watches or similar apparel that could entrap the material.
Respiratory Protection:	Use respirator if irritation is experienced or if the recommended exposure limit is exceeded. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Use respirator with an organic vapor and dust/mist cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Hygiene measures:	Observe good industrial hygiene practices. Do not get this material in contact with skin. Do not eat, drink or smoke when using the product. Do not get in eyes. Wash contaminated clothing before reuse. When using do not smoke. Wash hands before breaks and immediately after handling the product. Wash hands after handling.

9. Physical and chemical properties**Appearance**

Physical state:	liquid
Form:	liquid
Color:	Colorless to amber
Odor:	Alcohol
Odor threshold:	No data available.
pH:	7.1 - 8.5 (5 % Water)
Freezing point:	-88.5 °C
Boiling Point:	82.5 °C
Flash Point:	55.1 °C (Closed Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.

Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	0.92 - 0.96 15.6 °C
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Heat, sparks, flames.
Incompatible Materials:	Amines. Aldehydes. Bases. Halogens and halogenated compounds. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	Harmful if inhaled.
Ingestion:	Harmful if swallowed.
Skin Contact:	May be harmful in contact with skin. Causes severe skin burns.
Eye contact:	Causes serious eye damage.

Information on toxicological effects

Acute toxicity

Oral

Product:	Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. ATEmix 200 - 500 mg/kg.
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Dermal

Product:	ATEmix > 2,000 mg/kg
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Inhalation

Product:	Breathing high vapor concentrations may cause adverse central nervous system effects such as dizziness, light-headedness, headache, drowsiness, nausea and loss of coordination. ATEmix (, 4 h): 2.5 - 50 mg/l Vapour
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Skin Corrosion/Irritation:

Product: Causes severe skin burns.
Remarks: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Causes serious eye damage.

Respiratory sensitization:

No data available

Skin sensitization:

Alkyl dimethyl benzyl ammonium chloride Classification: Not a skin sensitizer. (Read across) Not a skin sensitizer.

Isopropyl alcohol Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.

Specific Target Organ Toxicity - Single Exposure:

Alkyl dimethyl benzyl ammonium chloride May cause irritation to the mucous membranes and upper respiratory tract.

Isopropyl alcohol May cause irritation to the mucous membranes and upper respiratory tract.

Aspiration Hazard:

No data available

Other effects:

Isopropyl alcohol Central nervous system May cause drowsiness or dizziness.

Chronic Effects**Carcinogenicity:**

No data available

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity:

Alkyl dimethyl benzyl ammonium chloride This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

Isopropyl alcohol In vitro mutagenicity tests have been negative.

Reproductive toxicity:

Isopropyl alcohol

Teratogenic effects have been observed in laboratory animals only at maternally toxic doses.

Specific Target Organ Toxicity - Repeated Exposure:

No data available

12. Ecological information

Ecotoxicity

Fish

Alkyl dimethyl benzyl ammonium chloride LC 50 (Not reported, 4 d): 0.38 mg/l

Aquatic Invertebrates

Alkyl dimethyl benzyl ammonium chloride EC 50 (Water flea (Daphnia magna), 2 d): 0.0059 mg/l

Toxicity to Aquatic Plants

No data available

Toxicity to soil dwelling organisms

No data available

Sediment Toxicity

No data available

Toxicity to Terrestrial Plants

No data available

Toxicity to Above-Ground Organisms

No data available

Toxicity to microorganisms

No data available

Persistence and Degradability

Biodegradation

Alkyl dimethyl benzyl ammonium chloride 93.3 %, 28 d, Readily biodegradable

Bioaccumulative Potential

Bioconcentration Factor (BCF)

No data available

Partition Coefficient n-octanol / water (log Kow)

No data available

Mobility:

No data available

Other Adverse Effects:

No data available.

13. Disposal considerations

Disposal instructions:	Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.
Contaminated Packaging:	Container packaging may exhibit hazards.

14. Transport information**TDG**

UN Number:	UN 2920
UN Proper Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(Alkyl dimethyl benzyl ammonium chloride, Isopropyl alcohol)
Transport Hazard Class(es)	
Class:	8
Label(s):	8, 3
Packing Group:	II
Marine Pollutant:	Yes

IMDG

UN Number:	UN 2920
UN Proper Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(Alkyl dimethyl benzyl ammonium chloride, Isopropyl alcohol)
Transport Hazard Class(es)	
Class:	8
Label(s):	8, 3
EmS No.:	F-E, S-C
Packing Group:	II
Marine Pollutant:	Yes
Limited quantity	1.00L
Excepted quantity	E2
Special precautions for user:	None established

IATA

UN Number:	UN 2920
Proper Shipping Name:	Corrosive liquid, flammable, n.o.s.(Alkyl dimethyl benzyl ammonium chloride, Isopropyl alcohol)
Transport Hazard Class(es):	
Class:	8
Label(s):	8, 3
Marine Pollutant:	Yes
Packing Group:	II
Limited quantity	0.50L
Excepted quantity	E2
Environmental Hazards	Marine Pollutant
Special precautions for user:	None established
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory information**HMIRA Status**

Not Registered

Inventory Status**Australia (AICS)**

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACH)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

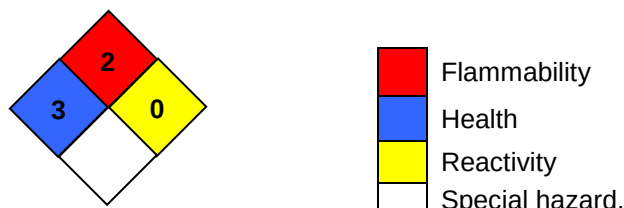
16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	3
Flammability	2
Physical Hazards	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 15.05.2017

Version #: 1.1

Source of information: Internal company data and other publically available resources.

Further Information: Contact supplier (see Section 1)

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