



Safety Data Sheet

SDS Revision Date: 15-Dec-2015

Page 1 of 8

ALKYL 100E

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity Alkyl 100E

Alternate Names Alkyl 100E

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Lubricant

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name BVA
29222 Trident Industrial Blvd
New Hudson, MI 48165 USA

Emergency

CHEMTREC (USA) (800) 424-9300

24 hour Emergency Telephone No. (800) 424-9300 (CHEMTREC)
+1 202-366-4488 (outside the USA).

Customer Service: (248) 348-4920

2. Hazard identification of the product

2.1. Classification of the substance or mixture

No applicable GHS categories.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

[Prevention]:

No GHS prevention statements

[Response]:

No GHS response statements

[Storage]:

No GHS storage statements

[Disposal]:

No GHS disposal statements



ALKYL 100E

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Benzene, C14-30-alkyl derivs. CAS Number: 0068855-24-3	100	Not Classified	[1]

[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

- General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eyes** Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
- Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

- Overview** No specific symptom data available. See section 2 for further details.

5. Fire-fighting measures

5.1. Extinguishing media



ALKYL 100E

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.



ALKYL 100E

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0068855-24-3	Benzene, C14-30-alkyl derivs.	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0068855-24-3	Benzene, C14-30-alkyl derivs.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

- Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
- Eyes** Protective safety glasses recommended.
- Skin** Wear overalls to keep skin contact to a minimum.
- Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

- Appearance** CLEAR, COLORLESS TO PALE YELLOW OR AMBER Liquid
- Odor** Characteristic



ALKYL 100E

Odor threshold	Not Measured
pH	Not Measured
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	325°C
Flash Point	>175°C (347°F)
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	< 0.013 kPa (0.1 mm Hg) at 20°C
Vapor Density	> 1 (air=1)
Specific Gravity	Not Measured
Solubility in Water	Insoluble in cold water, hot water
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt) @ 40 °C	90 - 100 cSt at 40°C
Density @20°C (g/cm ³)	0.867
Pour point	< -27 (-17)

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

11. Toxicological information

Acute toxicity



ALKYL 100E

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Benzene, C14-30-alkyl derivs. - (68855-24-3)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Benzene, C14-30-alkyl derivs. - (68855-24-3)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.



ALKYL 100E

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user	No further information		

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification Not Regulated

US EPA Tier II Hazards Fire: No Sudden Release of Pressure: No Reactive: No Immediate (Acute): No

**ALKYL 100E**

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

(No Product Ingredients Listed)

EPCRA 302 Extremely Hazardous :

(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:

(No Product Ingredients Listed)

Proposition 65 - Carcinogens (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):

(No Product Ingredients Listed)

N.J. RTK Substances (>1%) :

(No Product Ingredients Listed)

Penn RTK Substances (>1%) :

(No Product Ingredients Listed)

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the date issued. You can contact us to ensure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.

End of Document



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT	Product Name: ALKYL 150, ALKYL 300, ALKYL 100E Product Description: Highly Refined Synthetic Hydrocarbon Oil with Additives. Intended Use: Lubricant, Compressor Lubricant
COMPANY IDENTIFICATION	Supplier BVA Inc. 29222 Trident Industrial Blvd. New Hudson, MI 48165 USA +1-248-348-4920
Emergency telephone numbers	USA – Chemtrec: 800-424-9300 All Others – Chemtrec: +1-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION
This material not dangerous according to regulatory guidelines (see (M)SDS Section 15) Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage
HEALTH HAZARDS
Hazard Classification: Not hazardous. Label Elements Including Precautionary Statements Symbol: None. Signal Word: None. Hazard Risk Statement: Not hazardous. Precautionary Statement: Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Storage : Not applicable. Other Hazard: None known.
Note: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3: COMPONENT INFORMATION				
Chemical Name	CAS #	EINECs/ELINKs #	Percent (% wt)	Symbols /Risk Phrases
Heavy Alkylates; Benzene, C14-30-alkyl derivatives	68855-24-3	272-472-8	100%	R36, S61
Reportable Hazardous Substance(s) or Complex Substance(s)				
None				
Explanation of symbols: R36 = May cause eye irritation. S61 = Avoid Release into the environment				
INGREDIENT COMMENTS				



If no EU or no CAS numbers are given for classified components the raw material supplier has applied for / will apply for exemption, have not sent the complete information yet , or there could be no obligation to give the EU or CAS numbers.

No ingredients listed in the composition of this product are considered as hazardous by definition of OSHA's Hazard Communication Standard (29 CFR 1910.1200) nor considered carcinogen by IARC, ACHIG, NTP, or OSHA

SECTION 4 : FIRST AID MEASURES

Inhalation:	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
Skin:	Wash with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops get medical attention.
Eye :	Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion:	First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 : FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA	Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Inappropriate Extinguishing Media: Straight streams of water
FIRE FIGHTING	Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. Hazardous Combustion Products: Smoke, Fume, Carbon Monoxide, Aldehydes,
FLAMMABILITY PROPERTIES	Flash Point ASTM D92 (open cup typical) °C (°F) 170 (338) Minimum Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D Autoignition Temperature: N/D

SECTION 6 : SPILL OR LEAK HANDLING PROCEDURES

SPILL MANAGEMENT	Land Spill: Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent. Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.
ENVIRONMENTAL PRECAUTIONS	Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 : HANDLING AND STORAGE

HANDLING	Prevent small spills and leakage to avoid slip hazard. Static Accumulator: This material is a static accumulator.
STORAGE	Do not store in open or unlabeled containers.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL. This product is non carcinogenic

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s)



ENGINEERING CONTROLS	<p>The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:</p> <p>No special requirements under ordinary conditions of use and with adequate ventilation</p>
PERSONAL PROTECTION	<p>Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.</p>
<p>Respiratory Protection:</p> <p>Hand Protection:</p> <p>Eye Protection:</p> <p>Skin and Body Protection:</p> <p>Specific Hygiene Measures</p>	<p>Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:</p> <p>No special requirements under ordinary conditions of use and with adequate ventilation.</p> <p>For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.</p> <p>Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:</p> <p>No protection is ordinarily required under normal conditions of use.</p> <p>If contact is likely, safety glasses with side shields are recommended.</p> <p>Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:</p> <p>No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.</p> <p>Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.</p>
ENVIRONMENTAL CONTROLS	See Sections 6, 7, 12, 13.



SECTION 9 : PHYSICAL & CHEMICAL PROPERTIES			
Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.			
General Information		HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION	
Physical State	Liquid	Specific Gravity 15°C	0.85-0.87
Color	Clear colorless to pale yellow	Flash Point °C (°F)	170 (338) minimum
Odor	Characteristic	Flammable Limits	LEL: N/D UEL: N/D
Odor Threshold	ND	Autoignition Temperature:	ND
		Boiling Point °C (°F)	>200 °C
OTHER INFORMATION		Vapor Density (Air=1)	NA
Pour Point °C (°F)	-30 Maximum	Vapor Pressure	< 0.013 kPa (0.1 mm Hg) at 20°C
Freezing Point	ND	Evaporation Rate (N-Butyl Acetate = 1):	ND
Viscosity 40°C, cSt	51-62		
	cSt		cSt
Alkyl 150	26-30	Alkyl 500	90-100
Alkyl 300	49-62		
		Solubility in Water	Nil
		Oxidizing Properties	See Sections 3, 15, 16.

SECTION 10 : STABILITY & REACTIVITY	
STABILITY:	Material is stable under normal conditions.
CONDITIONS TO AVOID:	Excessive heat. High energy sources of ignition.
MATERIALS TO AVOID:	Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS:	Material does not decompose at ambient temperatures.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY	
Potential acute health effects	
Inhalation : No known significant effects or critical hazards.	
Ingestion : No known significant effects or critical hazards.	
Skin contact : No known significant effects or critical hazards.	
Eye contact : No known significant effects or critical hazards.	
Route of Exposure	Conclusion / Remarks
INHALATION	
Toxicity: LC50 >5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
INGESTION	
Toxicity: LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity: LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation: Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.



CHRONIC/OTHER EFFECTS

For the product itself:

Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract.

Contains:

Synthetic Hydrocarbon Base Oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals. Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

CARCINOGENIC EFFECTS:

Contains no carcinogens. Similar compounds essentially non-toxic. No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA), NTP or IARC.

MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

TERATOGENIC EFFECTS/DEVELOPMENTAL TOXICITY: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

REPRODUCTION TOXICITY: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

Additional information is available by request.

OVER – EXPOSURE SIGNS/SYMPTOMS

Skin	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.

SECTION 12 : ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- May cause long-term adverse effects in the aquatic environment.

Environmental Toxicity Information for a Similar Product is provided herein:

96-hr LC50 Rainbow Trout: >1000 mg/l practically non-toxic

96-hr LC50 Sheepshead Minnow: >1000 mg/l practically non-toxic

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land.

Expected to partition to sediment and wastewater solids.

BIODEGRADATION

Base oil component -- Expected to be inherently biodegradable, not expected to be readily biodegradable

BIOACCUMULATION POTENTIAL

A component -- Expected to be persistent.

ECOLOGICAL DATA

Care should be taken to minimize release of this product into the environment



Environmental Fate & Distribution	No Data Available	Other Typical (not a specification)
Persistence & Degradation Toxicity	No Data Available	Acute Toxicity to Fish: No Data Available
Effect on Effluent Treatment	Product may be partially removed in biological treatment processes.	Effect Concentration on Algae: No Data Available
		Ready Biodegradability: No
		Respiration Inhibition: No Data Available
		Adsorption/Desorption: No Data Available
		Abiotic Degradability-Hydrolysis : Not measurable

SECTION 13 : DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS
 Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

European Waste Code: 13 02 06

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

This material is considered as hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14 : TRANSPORT INFORMATION

LAND (ADR/RID) : Not Regulated for Land Transport
INLAND WATERWAYS (ADNR) : Not Regulated for Inland Waterways Transport
SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code
AIR (IATA) : Not Regulated for Air Transport

US DOT Classification: Not Regulated Marine Pollutant: Not a Pollutant Special Provisions for transport: None Identified	ICAO/IATA Classification Proper shipping name: Not regulated IATA Class UN number: Not regulated. Packing Group: Not regulated.
ADR/RID Classification UN number: Not regulated. Proper shipping name: Not regulated. ADR/RID Class: Not regulated. Packing Group: Not regulated.	IMO/IMDG Classification Proper shipping name: Not regulated IMDG Class: Not regulated UN number: Not regulated. Packing Group: Not regulated. Marine Pollutant: Not pollutant.

USA: No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warnings are not applicable for this product; therefore no OSHA Warnings would appear on the label. No EPA hazard classification code.



SECTION 15: Regulatory Information Product Component Ingredients

Europe

Material is not dangerous as defined by the EU Dangerous Substances/Preparations Directives.

EU LABELING: Not regulated according to EC Directives. Material is not dangerous as defined by the EU Dangerous Substances/Preparations Directives.

Classification and labeling have been performed according to EU Directives 67/548/EEC, 1999/45/EC and 2001/58/EC (including amendments) and the intended use. - Consumer applications.

United States

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances: None.

Section 304 CERCLA Hazardous Substances: None.

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

Canada

WHMIS (Canadian Workplace Hazardous Materials Information System)

This product when tested as a whole is not a controlled substance within the meaning of the Hazardous Products Act.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Germany: Water Hazardous Class (WGK): 1 (low hazard to water)

NATIONAL LEGISLATION / REGULATIONS

Ozone depleting chemicals: No ozone depleting chemicals are present or used in manufacture.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national/regional chemical inventory requirements:

AICS, IECSC, DSL, EINECS, ENCS, KECI, PICCS, TSCA

<p>Detail U.S. Regulations</p>	<p>US INVENTORY (TSCA 8b): Listed on inventory. SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355):: This product is not regulated under Section 302 of SARA and 40 CFR Part 355. SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370):: Defined as non-hazardous by OSHA under 29 CFR 1910.1200(d). SARA 313 toxic chemical notification and release reporting: No products were found. CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: This material is not regulated under CERCLA Sections 103 and 107. 1910.H.119 PSM Highly Hazardous Chemicals: Not listed 1910.Z.1200 Hazardous Chemical": Not listed (see Section 2) EPA CWA 116.4 List of Hazardous Substances: Not listed EPA CERCLA 372 SARA Titles III 313 Toxic Chemicals/Categories: not listed EPA CAA Hazardous Air Pollutants: not listed EPA CERCLA SARA Title III 311/312 Hazard Categories Delay Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No</p>
<p>State Regulations</p>	<p>No products were found. California prop. 65: No products were found State This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive hazard</p>



SECTION 16: OTHER INFORMATION

This product safety data sheet was prepared in compliance Conforms to HazCom 2012/United States. Certain elements refer to Commission Directive 2001/58/EC , 91/155/EEC, 67/548/EEC and 1999/45/EC for reference, as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labeling of dangerous substances and preparations.

History

Update 7 – February-2015 : Minor physical data revisions in section 9, updates to GHS Format

Date of issue: 7 – February - 2015

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From

Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

N/D = Not determined, N/A = Not applicable

KEY TO THE RISK CODES CONTAINED IN SECTION 2 AND 3 OF THIS DOCUMENT :

Nature of Special Risk: R36 = May cause eye irritation.

Safety Advice: S61; Avoid release to the environment. Refer to special instructions/safety data sheets

U.S.A. Hazardous Material Information System and National Fire Protection Association (U.S.A.)

Hazardous Material Information System and National Fire Protection Association (U.S.A.)						
Degree of Hazard	NFPA		HMIS		HAZARD RATINGS	
Health	1		1		0	Insignificant
Fire	1		1		1	Slight
Reactivity	0		0		2	Moderate
Personal Protection			B		3	Serious
					4	Severe

The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the date issued. You can contact us to insure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.



MATERIAL SAFETY DATA SHEET

BVA ALKYL 100E

SECTION I: General Information		
Manufacturer/Supplier Name:	Phone :	248-348-4920
BVA OILS	Emergency :	CHEMTRAC
48845 West Road		1-800-424-9300
Wixom, Mi 48393-6042	Date prepared:	01/21/2008

SECTION II: COMPONENT INFORMATION		
Chemical Name	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
Synthetic Alkylated Aryl Compounds	Mixture	100%
All components of this product are listed on the U.S. TSCA inventory.		

SECTION III: POTENTIAL HEALTH EFFECTS FROM OVEREXPOSURE	
Eye :	Irritating to eyes, but does not damage tissue.
Inhalation :	If sprayed or misted may cause chemical pneumonia, headache, dizziness, etc.
Ingestion :	Low toxicity on ingestion, has laxative effect.
Skin :	Minimally irritating. Prolonged contact can cause dermatitis.

SECTION IV: FIRST AID PROCEDURES	
Eye :	Copious warm water flush for 15 minutes. If irritation persists seek physician assessment.
Skin:	Wash skin with soap and water. Remove contaminated clothing-Launder or dry clean clothes before reuse. Dispose of leather articles. If product is injected into or under the skin individual should be treated by the physician as a surgical emergency.
Inhalation :	Evacuate to a safe area with plenty of fresh air. Apply cardiopulmonary resuscitation if required. Administer oxygen if available. If resuscitation required, seek medical aid immediately.
Ingestion :	DO NOT induce vomiting. Drink 2-3 cups of milk or water. Call a physician immediately.

SECTION V FIRE FIGHTING PROCEDURES		
This product is: Combustible		
FLASH POINT °F= OPEN CUP	356°F (180°C)	LOWER EXPLOSIVE LIMIT
UNUSUAL HAZARDS :	Burning fluid may evolve irritating/noxious fumes, smoke, carbon monoxide, and minor amounts of sulfur and nitrogen.	

BVA ALKYL 100E MSDS

Page 2 of 4

Extinguishing Agents :	Agents approved for Class B fire hazards, such as dry chemical, carbon dioxide, halogenated agents, foam, steam or water fog.
Protective Clothing :	Firefighters should use NIOSH/MNSA approved self-contained breathing apparatus and full protective gear.
Firefighting Procedures :	If safe to do so, shut off source of spill. Cover with extinguishing agent. Use water spray to cool fire exposed containers and as a protective screen. DO NOT point solid water stream directly into burning oil to avoid spreading of fire. Wear self-contained breathing apparatus.

SECTION VI : SPILL OR LEAK HANDLING PROCEDURES

Personal Protection :	Wear protective clothing including splash proof goggles, rubber gloves and rubber overshoes. Remove all contaminated clothing promptly.
Procedures:	Floor may be slippery, use care to avoid falling. Contain spill immediately with inert material (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.
CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.	

SECTION VII : HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing.

Ensure that containers are properly secured before moving.

Keep container closed and keep away from oxidizing materials.

Store in a cool-well ventilated area.

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

SECTION VIII : COMPONENT EXPOSURE LIMITS & PERSONAL PROTECTION

COMPONENT EXPOSURE LIMIT		OSHA		ACGIH		CARCINOGENIC
COMPONENT	UNITS	TWA	STEL	TLV	STEL	
Synthetic Alkylated Aryl Compounds	mg/m ³	5 - oil mist for 8 hour day		10 oil mist for 8 hour day		non carcinogenic
PERSONAL PROTECTION MEASURES						
EYE	Safety glasses (ANSI Z87.1) or approved equivalent.					
SKIN	Strongly recommend protective gloves, especially for prolonged exposures. Gloves should be removed immediately if there is any indication of degradation or chemical breakthrough. Long sleeved clothing to minimize skin contact.					
INHALATION	Use in well ventilated area. If mist is being generated and exceeds the TWA/TLV listed above than a respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.					

BVA ALKYL 100E MSDS

Page 3 of 4

SECTION IX : PHYSICAL & CHEMICAL PROPERTIES			
APPEARANCE	Yellow	SPECIFIC GRAVITY (WATER=1)	0.86
PHYSICAL STATE	LIQUID	Molecular weight	
COLOR	Yellow	EVAPORATION RATE B/A=C=1	
ODOR	Mild bland odor	VISCOSITY SUS	29-35cSt @ 40C
VAPOR DENSITY (AIR=1)		SOLUBILITY IN WATER	Practically insoluble in water

SECTION X : STABILITY & REACTIVITY	
STABILITY:	Stable
CONDITIONS TO AVOID:	Excessive heat, formation of oil mist.
MATERIALS TO AVOID:	Strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, smoke on combustion, COx, etc.
HAZARDOUS DECOMPOSITION:	Analogous compounds evolve carbon monoxide, carbon dioxide, and other unidentified fragments when burned. See Section 5.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION XI : TOXICOLOGICAL INFORMATION	
Toxicity data for a similar material is listed below	
Skin Irritation	May cause irritation and possible dermatitis.
Eye Irritation	Slight irritation.

SECTION XIII : WASTE DISPOSAL	
Consult your local or regional authorities.	

SECTION XIV : REGULATORY INFORMATION				
Degree of Hazard	NFPA	HMIS	HAZARD RATINGS	
Health	1	1	0	Insignificant
Fire	1	1	1	Moderate
Reactivity	0	0	2	High
Specific Hazards	None		3	Extreme
Personal Protection Index		B	4	Extreme

SECTION XVI : Transport Information	

BVA ALKYL 100E MSDS

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warning are not applicable for this product; Therefore no OSHA Warnings would appear on the label. No EPA hazard classification code.

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO USE, HANDLE, STORE, TRANSPORT OR ARE OTHERWISE EXPOSED TO THIS PRODUCT. WE BELIEVE THE INFORMATION IN THIS DOCUMENT TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKE NO GUARANTEE THAT IT IS.