

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name: Aerotech B

Supplier: ValCOOL, LLC
5230 Brittmoore Rd.
Houston, TX 77041

Telephone: (800) 244-9004
Fax: (888) 695-6449
Email: support@valcool.com

In case of Emergency: CHEMTREC
1-800-424-9300

Product Description High performance non-chlorinated machining fluid specifically designed for aerospace machining applications

SECTION 2: HAZARD IDENTIFICATION

GHS Classification



GHS08 Health hazard
Resp. Sens. 1 - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 1B - H350 May cause cancer.
STOT SE 2 - H371 May cause damage to organs.
STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.



GHS07
Skin Irrit. 2 - H315 Causes skin irritation.
Eye Irrit. 2A - H319 Causes serious eye irritation.
Skin Sens. 1 - H317 May cause an allergic skin reaction.

GHS Label

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictogram



GHS08

Signal word Danger

Hazard-determining components of labeling Distillates (petroleum), hydrotreated heavy naphthenic TOFA DIPA Amide
 2,2',2''-nitrioltriethanol
 2-cyclohexe-1-octanoic acid, 5-carboxy-4-hexyl

Hazard Statement Causes skin irritation.
 Causes serious eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 May cause cancer.
 May cause damage to organs.
 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention Do not breathe dust/fume/gas/mist/vapors/spray.
 [In case of inadequate ventilation] wear respiratory protection.

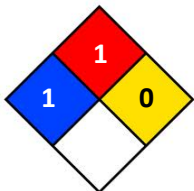
Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Specific treatment (see on this label).

Storage Store locked up

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification System

NFPA ratings (scale 0 - 4)



Health = 1
 Fire = 1
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health	*1	Health = *1
Fire	1	Fire = 1
Reactivity	0	Reactivity = 0

Other hazards Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture

Description: Mixture of the substances listed below with nonhazardous additions.

Components/Ingredients	CAS No.	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	≤25%

TOFA DIPA Amide	38618-12-1	2.5-<10%
2,2',2''-nitrilotriethanol	102-71-6	2.5-<10%
Boric Acid salt	26038-87-9	2.5-<10%
2-methylpentane-2,4-diol	107-41-5	2.5-<10%
2-cyclohexe-1-octanoic acid, 5-carboxy-4-hexyl	53980-88-4	0.1-≤ 2.5%
Tolyltriazole sodium salt	64665-57-3	0.1-<1%

SECTION 4: FIRST AID MEASURES

- Eye Contact** Do not rub eyes. IMMEDIATELY rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- Skin Contact** Immediately wash with water and soap and rinse thoroughly
- Ingestion** Do not induce vomiting. Seek medical attention immediately.
- Inhalation** In case of unconsciousness place patient stably in side position for transportation.

Information for doctor:

Most important symptoms/effects, acute and delayed

No further relevant information available.

Description of necessary first aid measures / specific treatments

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing agents Carbon Dioxide, Dry Chemical, Alcohol Foam or a light water spray

Special hazards arising from the substance or mixture No further relevant information available

Special Fire Fighting Instructions

Full protective clothing and approved self-contained breathing apparats if necessary for fire fighting personnel.

Protective equipment

No special measures required

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE**Handling**

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

Information about protection against explosions and fires Keep respiratory protective device available.

Storage

Requirements to be met by storerooms and receptacles Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials.

Information about storage in one common storage facility Keep container tightly closed in a cool, well-ventilated place.
Keep away from source of ignition.

Further information about storage conditions Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Additional information about design of technical systems - No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace

2,2',2''-nitrilotriethanol	102-71-6
TLV	Long-term value: 5 mg/m ³
2-methylpentane-2,4-diol	107-41-5
REL	Ceiling limit value: 125 mg/m ³ , 25 ppm
TLV	Ceiling limit value: 121 mg/m ³ , 25 ppm

Additional information The lists that were valid during the creation were used as basis

Exposure controls

Personal protective equipment

General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

Eye / Face Protection



Tightly sealed goggles

Hand Protection



Protective Gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. When contact is likely wear chemical resistant gloves and boots. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory Protection

Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	Liquid
Color	Light yellow
Odor	Mild
Specific Gravity at 20°C (68°F)	1.04 g/cm ³ (8.679 lbs/gal)
Density	N.D.
Evaporation rate	Not determined.
Flash Point	180 °C (356 °F) (estimated)
Ignition Temperature	305 °C (581 °F)
Auto-ignition Temperature	Does not ignite.
Danger of explosion	No Danger
Boiling Point / Range	286 °C (547 °F)
pH- Value at 20 °C (68 °F)	9.5
Solubility in Water	Soluble
Viscosity	
 Kinematic	Not determined
Organic solvents	5.0 %
VOC content	5.0 % (Neat): 115 g/L (Working Solution): 11.5 g/L
Other information	No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No further relevant information available
Chemical Stability	
Thermal decomposition Conditions to Avoid	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known
Conditions to Avoid	No further relevant information available

Incompatibility with other Materials Do not mix with oxidizers**Hazardous decomposition materials** Carbon Dioxide and Carbon Monoxide and various unidentified organic hydrocarbons**SECTION 11: TOXICOLOGICAL INFORMATION****Acute toxicity****Primary irritant effect**

Eye Contact Irritating effect
Skin Contact Irritant to skin and mucous membranes
Sensitization Sensitization possible through inhalation.

Additional toxicological information The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant**Carcinogenic categories**

IARC 102-71-6 2,2',2''-nitrioltriethanol 3
(International Agency for Research on Cancer)

NTP None of the ingredients is listed.
(National Toxicology Program)

OSHA-Ca None of the ingredients is listed.
(Occupational Safety & Health Administration)

SECTION 12: ECOLOGICAL INFORMATION**Toxicity**

Aquatic toxicity No further relevant information available
Persistence and degradability No further relevant information available

Behavior in environmental systems

Bioaccumulative potential No further relevant information available
Mobility in soil No further relevant information available

Additional ecological information

General notes Not readily biodegradable.
Does not hydrolyse.

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SDS Date: 5/31/2016

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DOT

Quantity limitations

On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L

ADR

Excepted quantities (EQ)

Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

IMDG

Limited quantities (LQ)
Excepted quantities (EQ)

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation"

UN 1760 CORROSIVE LIQUIDS, N.O.S. (2-CYCLOHEXE-1-OCTANOIC ACID, 5-CARBOXY-4-HEXYL, TOLYLTRIAZOLE SODIUM SALT), 8, III

SECTION 15: REGULATORY INFORMATION**Sara****Section 355**

(extremely hazardous substances)

None of the ingredients is listed.

Section 313

(Specific toxic chemical listings)

None of the ingredients is listed.

TSCA (Toxic Substances Control Act)

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Proposition 65**Chemicals known to cause cancer**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males

None of the ingredients is listed.

Chemicals known to cause developmental toxicity

None of the ingredients is listed.

Carcinogenic categories**EPA**

(Environmental Protection Agency)

None of the ingredients is listed

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TLV
(Threshold Limit Value established by ACGIH)

None of the ingredients is listed

NIOSH-Ca
(National Institute for Occupational Safety and Health)

None of the ingredients is listed

GHS Label

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[In case of inadequate ventilation] wear respiratory protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Specific treatment (see on this label).

Storage Store locked up

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations

Information about limitation of use Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

Chemical safety assessment A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Revision Date: May 27, 2016

Abbreviations and acronyms:**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG:** International Maritime Code for Dangerous Goods**DOT:** US Department of Transportation**ACGIH:** American Conference of Governmental Industrial Hygienists**EINECS:** European Inventory of Existing Commercial Chemical Substances**ELINCS:** European List of Notified Chemical Substances**CAS:** Chemical Abstracts Service (division of the American Chemical Society)**NFPA:** National Fire Protection Association (USA)**HMIS:** Hazardous Materials Identification System (USA)**VOC:** Volatile Organic Compounds (USA, EU)**PBT:** Persistent, Bioaccumulative and Toxic**vPvB:** very Persistent and very Bioaccumulative**NIOSH:** National Institute for Occupational Safety**OSHA:** Occupational Safety & Health**TLV:** Threshold Limit Value**PEL:** Permissible Exposure Limit**REL:** Recommended Exposure Limit**Skin Irrit. 2:** Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2A:** Serious eye damage/eye irritation, Hazard Category 2A**Resp. Sens. 1:** Sensitisation - Respirat., Hazard Category 1**Skin Sens. 1:** Sensitisation - Skin, Hazard Category 1**Carc. 1B:** Carcinogenicity, Hazard Category 1B**STOT SE 2:** Specific target organ toxicity - Single exposure, Hazard Category 2**STOT RE 2:** Specific target organ toxicity - Repeated exposure, Hazard Category 2**HMIS:**

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