

Safety Data Sheet
ADI BIO-G

Prepared according to Global Harmonized System (GHS) standards.

1	Substance/Product Identification
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ADICOMP SRL
Via del Progresso,35
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Phone: 39-00444 573979
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Product Trade Name **ADI BIO-G**

CAS Number Not applicable for mixtures.

Synonyms None.

Generic Chemical Name Mixture.

Recommended Use Formulated Industrial Lubricant.

Restrictions on use Not determined.

Created Date 11 January 2010

Preparation/Revision Date 22 February 2013

Transportation Emergency Phone No. FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)

MSDS No. 22603080-2528412-501321-102103

2	Hazards Identification
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Appearance Clear to yellow liquid.

Odour Mild

Classification Eye damage / irritation category 2B

Target Organs Not determined.

Signal Word Warning.

Hazard statement Causes eye irritation.

Other Hazards None identified.

Precaution(s): Wear eye protection / face protection. Wash thoroughly after

handling.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage Procedures Protect from sunlight. Store away from oxidizers.

See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
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**Hazardous
Ingredients**

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Alkaryl amine	Confidential.	From 0.5 to 1.5 percent	N/E

4	First Aid Measures
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Eyes Rinse cautiously with water for 20 minutes or until chemical is removed. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical attention.

Skin Wash with soap and water for 30 minutes or until chemical is removed. Immediately remove all contaminated clothing. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If experiencing respiratory symptoms call a poison center or doctor.

Ingestion Do NOT induce vomiting. Never give anything by mouth to a person who is losing consciousness, unconscious or convulsing. Rinse mouth and then drink plenty of water, seek medical attention Call a poison center or doctor if exposed or you feel unwell.

Advice for the protection of first-aid providers When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves, masks and eye protection. If providing CPR use mouthpieces, resuscitation bags, pocket masks or other ventilation devices. After providing first aid wash your exposed skin with soap and water.

Additional Information Note to physician: Treat symptomatically.

5	Fire Fighting Measures
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Flash Point $\geq 271\text{ }^{\circ}\text{C}$, 519.8 $^{\circ}\text{F}$ COC (Minimum)

Extinguishing Media CO₂, dry chemical, foam, water spray, water fog. Water can be used to cool and protect exposed material

Unsuitable Not determined.

Extinguishing Media

Firefighting Procedures

Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Do not use a water jet. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. Stop leak if safe to do so. Spills produce extremely slippery surfaces. In case of fire, evacuate area. Do not release chemically contaminated water into drains, soil or surface water.

Unusual Fire & Explosion Hazards

Burning may produce irritating, toxic and obnoxious fumes. Container may rupture in a fire situation. Keep material away from heat, sparks, pilot lights, static electricity and open flame. DO NOT USE a solid stream of water. See section 10 for additional information.

6	Accidental Release Measures
Personal precaution, protective equipment and emergency procedures	Keep unnecessary personnel away. Only trained personnel should be permitted in area. Personal protective equipment must be worn. Ventilate area if spilled in a confined space or other poorly ventilated area. Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames. Material on floor may be slippery.
Environmental precaution and protective procedures.	Material will float on water. Do not flush into surface water, sanitary sewer or ground water system.
Methods for clean-up and removal	Shut off leak if without risk. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Small spills: contain spilled material. Transfer to secure containers. Where necessary collect using absorbent media. Larger spills: stop spill and dike area to prevent spreading, pump liquid to salvage tank. remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers. Place in metal containers for recovery or disposal.

7	Handling and Storage
Pumping	Not determined.
Temperature	
Maximum Handling Temperature	Not determined.
Handling Procedures	Keep away from ignition sources such as heat, sparks and open flame. No smoking. Use with adequate ventilation. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid prolonged exposure to heat and air. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid inhalation of dust, aerosol, mist, spray, fume, or vapor.

Use with appropriate and adequate ventilation. Ground / bond container and receiving equipment. All equipment should be grounded to prevent static discharges, and vented to provide for potential energy release. Do not breathe thermal decomposition products. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

Maximum Storage Temperature

Not determined.

Storage Procedures

Keep material away from heat, sparks, pilot lights, static electricity and open flame. Store separately from oxidizers. Store in a cool, dry, well-ventilated area. Do not store in direct sunlight. Store separately from incompatible materials. Store in containers made of same material as original container. Store container tightly closed in well-ventilated place. Store in dry, well ventilated place away from sources of heat and direct sunlight. See section 10 for incompatible materials.

Maximum Loading Temperature

Not determined.

8	Exposure Controls/Personal Protection
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Exposure Limits

EU

Not applicable.

UK

Not applicable.

Ireland

Not applicable.

India

Not applicable.

Cyprus

Not applicable.

Other Exposure Limits

Contains synthetic basestock. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter for mineral oil mists.

Engineering Controls

If use generates a mist or vapor, local exhaust ventilation is recommended. Prevent inhalation by providing effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist, or vapor away from workers.

Personal Protective Equipment

Respiratory Protection	Use respirator with a combination organic vapor and high efficiency filter cartridge if 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.
Eye Protection	Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.
Gloves Procedures	Consult clothing/glove manufacturer to determine appropriate type of glove for given situation. Gloves should always be inspected before each use and discarded if they show tears, pinholes, or signs of wear. Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.
Clothing Recommendation	Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse. Use good industrial hygiene practices. In case of skin contact, wash hands and arms thoroughly with soap and water to prevent a skin reaction.
Hygiene Measures	Wash thoroughly after handling this product.

9	Physical and Chemical Properties
Flash Point	$\geq 271\text{ }^{\circ}\text{C}$, $519.8\text{ }^{\circ}\text{F}$ COC (Minimum)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.
Decomposition Temperature	Not determined.
Explosion Data	Material does not have explosive properties.
Vapour Pressure	Not determined.
pH	Not determined.
Specific Gravity	Not determined.
Bulk Density	Not determined.
Water Solubility	Insoluble.
Percent Solid	Not determined.
Percent Volatile	Not determined.
Volatile Organic Compound	Not determined.
Vapour Density	Not determined.
Evaporation Rate	Not determined.
Water/Octanol Coefficient	Not determined.
Odour	Mild

Odour Threshold	Not determined.
Appearance	Clear to yellow liquid.
Viscosity	98.3 Centistokes (40 °C) 14 Centistokes (100 °C)
Boiling Point	Not determined.
Boiling Point Range	Not determined.
Pour Point Temperature	-48 °C, -54 °F
Melting / Freezing Point	Not determined.

The above data are typical values and do not constitute a specification.

10	Stability and Reactivity
Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Strong mineral acids and strong oxidising agents. Avoid strong bases Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
Conditions to Avoid	Do not expose to excessive heat, ignition sources, or oxidizing materials. Direct sunlight. Contact with strong oxidizers.
11	Toxicological Information

-- ACUTE EXPOSURE --

Eye Irritation	Weak to moderate eye irritant. Does not meet EU R36 criteria. Based on data from components or similar materials.
Skin Irritation	Not expected to be a primary skin irritant. Based on data from components or similar materials. 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.
Respiratory Irritation	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from similar materials.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity	No data available to indicate product or components may be a toxic inhalation hazard.
Oral Toxicity	The LD50 in rats is > 10,000 mg/Kg. Based on data from components

	or similar materials.
Dermal Sensitization	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.
Aspiration Hazard	Not determined.

-- CHRONIC EXPOSURE --

Chronic Toxicity	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Carcinogenicity	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

-- ADDITIONAL INFORMATION --

Other	No other health hazards known.
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12	Ecological Information
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-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity	Not determined.
Freshwater Invertebrates Toxicity	Not determined.
Algae Toxicity	Not determined.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	Not determined.
Miscellaneous Toxicity	Not determined.

-- ENVIRONMENTAL FATE --

Biodegradation	At least 25% of the components in this product show limited biodegradation based on OECD 301-type test data.
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Bioaccumulation	1 - 10% of the components potentially bioconcentrate, based on measured octanol/water partition coefficients.
Soil Mobility	Not determined.
Notes	None known.

13	Disposal Considerations
Disposal Considerations	All disposal practices must be in accordance with local, regional, national and international regulations. Do not dispose in landfill.
Contaminated Containers or Packaging	Dispose of packaging or containers in accordance with local, regional, national and international regulations.

14	Transport Information
ICAO/IATA I	Not regulated
ICAO/IATA II	Not regulated
IMDG	Not regulated
IMDG EMS Fire	Not applicable.
IMDG EMS Spill	Not applicable.
IMDG MFAG	Not applicable.
MARPOL Annex II	Not determined.
USCG Compatibility	Not determined.
DOT NAERG	Not applicable.

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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-- Global Chemical Inventories --

USA	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	None known.
EU	To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH , or e-mail us at REACH_MSDS_INQUIRIES@Lubrizol.com
Japan	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
New Zealand	All components are in compliance with chemical notification requirements in New Zealand.
Canada	All components are in compliance with the Canadian Environmental

Switzerland	Protection Act and are present on the Domestic Substances List. All components are in compliance with the Environmentally Hazardous Substance Ordinance in Switzerland. Lubrizol must maintain records of all imports of this product into Switzerland. Third party importers are asked to report every import to The Lubrizol PSCD Manager (Europe), Hazelwood, Derby DE56 1QN, UK.
Korea	All components are in compliance in Korea.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
Taiwan	May require notification before sale in Taiwan.
Miscellaneous Regulatory Information	Not determined.

-- Other U.S. Federal Regulations --

SARA Ext. Haz. Subst.	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.
SARA Section 313	This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

SARA 311 Classifications	Acute Hazard	Yes
	Chronic Hazard	No
	Fire Hazard	No
	Reactivity Hazard	No

CERCLA Hazardous Substances	None known.
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-- State Regulations --

Cal. Prop. 65	This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.
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-- Product Registrations --

U.S. Fuel Registration	Not applicable.
Finnish Registration Number	Not Registered
Swedish Registration Number	Not Registered
Norwegian Registration Number	Not Registered

Danish Registration Number Not Registered

Swiss Registration Number Not Registered

Italian Registration Number Not Registered

-- Other / International --

Miscellaneous Regulatory Information Not determined.

16	Other Information
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Issuing Department Product Safety and Compliance Department (440-943-1200)

Created Date 11 January 2010

Preparation/Revision Date 22 February 2013

US NFPA Codes	Health	Fire	Reactivity	Special
	1	1	0	N/E

HMIS Codes	Health	Fire	Reactivity
	1	1	0

Revision Indicators	Section: 1 Product type.	Changed: 26 September 2012
	Section: 2 GHS Classification	Changed: 6 February 2013
	Section: 2 GHS Hazard statement(s)	Changed: 6 February 2013
	Section: 2 GHS Prevention statement(s)	Changed: 6 February 2013
	Section: 2 Disposal	Changed: 6 February 2013
	Section: 2 Label Eye first aid	Changed: 26 September 2012
	Section: 2 Storage procedures.	Changed: 26 September 2012
	Section: 3 Hazardous ingredients.	Changed: 26 September 2012
	Section: 4 Advice to first aid provider.	Changed: 26 September 2012
	Section: 4 Eyes first aid.	Changed: 26 September 2012
	Section: 4 Inhalation first aid.	Changed: 26 September 2012
	Section: 4 Oral first aid.	Changed: 26 September 2012
	Section: 4 Skin first aid.	Changed: 26 September 2012

Section: 5 Extinguishing media.	Changed: 26 September 2012
Section: 5 Flash point.	Changed: 25 May 2012
Section: 5 Special firefighting procedures.	Changed: 26 September 2012
Section: 5 Unusual fire& explosion hazards.	Changed: 26 September 2012
Section: 6 Environmental precautions	Changed: 6 February 2013
Section: 6 Methods for clean-up, removal	Changed: 26 September 2012
Section: 6 Personal precaution	Changed: 26 September 2012
Section: 7 Handling procedures.	Changed: 26 September 2012
Section: 7 Storage procedures.	Changed: 6 February 2013
Section: 8 Clothing recommendations.	Changed: 26 September 2012
Section: 8 Eye protection.	Changed: 26 September 2012
Section: 8 Glove protection.	Changed: 26 September 2012
Section: 8 Hazardous ingredients.	Changed: 26 September 2012
Section: 8 Ventilation procedures.	Changed: 26 September 2012
Section: 9 Flash point.	Changed: 25 May 2012
Section: 10 Conditions to avoid.	Changed: 26 September 2012
Section: 10 Incompatibility.	Changed: 26 September 2012
Section: 11 Chronic toxicity.	Changed: 26 September 2012
Section: 11 Eye irritation.	Changed: 26 September 2012
Section: 11 Respiratory irritation.	Changed: 6 February 2013
Section: 11 Skin irritation.	Changed: 26 September 2012
Section: 13 Disposal Considerations	Changed: 25 May 2012
Section: 15 SARA section 311/312.	Changed: 26 September 2012
Section: 15 Taiwan	Changed: 26 September 2012
Section: 16 HMIS codes.	Changed: 26 September 2012

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