SAFETY DATA SHEET

1. Identification

Product number	1000012732
Product identifier	8 OZ PRO-LUBE LB 12PK
Revision date	03-25-2016
Company information	ADASEAL INTERNATIONAL INC. 5468 HWY 70 WEST WAVERLY, TN 37185 United States
Company phone	General Assistance 931-296-2291
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	03
Supersedes date	12-29-2015
Recommended use	Not available.
Recommended restrictions	None known.

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 2
OSHA defined hazards	Not classified.	

- OSHA defined hazards
- Label elements



Signal word	None.		
Hazard statement	Harmful if swallowed. Causes serious eye irritation.		
Precautionary statement			
Prevention	Wash thoroughly after handling. Do not eat, de protection/face protection.	rink or smoke when using this product. Wear eye	
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. 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 advice/attention.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of contents/container in accordance v	with local/regional/national/international regulations.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1	
	Hazardous to the aquatic environment, long-term hazard	Category 1	
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Copper		7440-50-8	20 - 40

Chemical name	Common name and synonyms	CAS number	%
Triethanolamine		102-71-6	20 - 40
Aluminum		7429-90-5	1 - 2.5
Graphite		7782-42-5	1 - 2.5
Crystalline Silica		14808-60-7	0.1 - 1
Diethanolamine		111-42-2	0.1 - 1
Mineral Spirits		8052-41-3	0.1 - 1
Other components below	reportable levels		40 - 60

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion Get medical advice/attention if you feel unwell. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred Most important vision. symptoms/effects, acute and delayed Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. medical attention and special treatment needed **General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. 5. Fire-fighting measures Suitable extinguishing media Alcohol resistant foam Dry powder Dry sand Carbon dioxide (CO2)

Suitable extinguishing media	Alcohor resistant toam. Dry powder: Dry sand. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Environmental precautions	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)) PEL	5 mg/m3	Respirable dust.
		15 mg/m3	Total dust.
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Mineral Spirits (CAS	PEL	2900 mg/m3	
8052-41-3)		5	
		500 ppm	
US. OSHA Table Z-3 (29 C	FR 1910.1000)		
Components	Туре	Value	Form
Crystalline Silica (CAS	TWA	0.3 mg/m3	Total dust.
14808-60-7)		-	
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
US. ACGIH Threshold Lim	nit Values		
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)) TWA	1 mg/m3	Respirable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Crystalline Silica (CAS	TWA	0.025 mg/m3	Respirable fraction.
14808-60-7)			
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Mineral Spirits (CAS	TWA	100 ppm	
8052-41-3)			
Triethanolamine (CAS	TWA	5 mg/m3	
102-71-6)			
US. NIOSH: Pocket Guide		N I	F a <i>m</i> a
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)) TWA	5 mg/m3	Respirable.
		5 mg/m3	Welding fume or pyrophoric powder.
		10 mg/m3	Total
	TWA	1 mg/m3	Dust and mist.
Copper (CAS 7440-50-8)		-	
		0.05.00/0.5	Respirable dust
Crystalline Silica (CAS	TWA	0.05 mg/m3	Respirable dust.
Crystalline Silica (CAS 14808-60-7)		15 mg/m3	Respirable dust.
Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS	TWA	15 mg/m3	Respirable dust.
Copper (CAS 7440-50-8) Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS 111-42-2)	TWA TWA	15 mg/m3 3 ppm	
Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS 111-42-2) Graphite (CAS 7782-42-5)	TWA TWA TWA	15 mg/m3 3 ppm 2.5 mg/m3	Respirable dust.
Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS 111-42-2) Graphite (CAS 7782-42-5) Mineral Spirits (CAS	TWA TWA	15 mg/m3 3 ppm	
Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS 111-42-2) Graphite (CAS 7782-42-5)	TWA TWA TWA	15 mg/m3 3 ppm 2.5 mg/m3	

Exposure guidelines

Exposure guidelines		
US - California OELs: Skin	designation	
Diethanolamine (CAS 11	1-42-2)	Can be absorbed through the skin.
US ACGIH Threshold Limit	Values: Skin designation	
Diethanolamine (CAS 11	1-42-2)	Can be absorbed through the skin.
Appropriate engineering controls	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. Provide eyewash station.	
Individual protection measures,	such as personal protective	equipment
Eye/face protection	Face shield is recommended. Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical re supplier.	esistant gloves. Suitable gloves can be recommended by the glove
Other	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Wash hands after handling a	nd before eating. Keep away from food and drink.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	1822.01 °F (994.45 °C) estimated
Flash point	648.9 °F (342.7 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1 % estimated
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	998.6 °F (537 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.

Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	2.845 estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.			
Skin contact	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.			
Eye contact	Causes serious eye irritation.			
Ingestion	Harmful if swallowed.			
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.			

Information on toxicological effects

Acute toxicity Harmful if swallow

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Components	Species	Test Results
Aluminum (CAS 7429-90-5)		
Acute		
Inhalation		
LC50	Rat	> 0.888 mg/l, 4 Hours
		7.6 mg/l, If <1L: Consumer Commodity Hours
Oral		
LD50	Rat	> 2000 mg/kg
Copper (CAS 7440-50-8)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5.11 mg/l, 4 Hours
Oral		
LD50	Rat	481 mg/kg
Diethanolamine (CAS 111-42	-2)	
Acute		
Oral		
LD50	Rat	1100 mg/kg
Graphite (CAS 7782-42-5)		
<u>Acute</u>		
Inhalation		
LC50	Rat	> 2000 mg/m3, 4 Hours

Components	Species	Test Results
Oral		
LD50	Rat	> 2000 mg/kg
Triethanolamine (CAS 102-71-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	6400 mg/kg
* Estimates for product may	be based on additional compor	ent data not shown.
Skin corrosion/irritation	Prolonged skin contact may	
Serious eye damage/eye	Causes serious eye irritation	l.
irritation	-	
Respiratory or skin sensitization	on	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Risk of cancer cannot be ex	cluded with prolonged exposure.
IARC Monographs. Overal	Evaluation of Carcinogenici	У
Crystalline Silica (CAS Diethanolamine (CAS 1 Triethanolamine (CAS 1	11-42-2)	If <1L: Consumer Commodity Carcinogenic to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.
Not regulated.		
•	rogram (NTP) Report on Carc	inogens
Reproductive toxicity	This product is not expected	to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects		through skin. Prolonged inhalation may be harmful. Prolonged c effects.
		sure may cause liver and kidney damage. These effects have not

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Ecotoxicity	

Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Aluminum (CAS 7429-	-90-5)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.16 mg/l, 96 hours
Copper (CAS 7440-50	-8)		
Aquatic			
Algae	IC50	Algae	0 mg/L, 72 Hours
Crustacea	EC50	Daphnia	0.03 mg/L, 48 Hours
		Water flea (Daphnia magna)	0.036 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.0319 - 0.0544 mg/l, 96 hours

Compo	onents		Species	Test Results
Diethar	nolamine (CAS 111-42	-2)		
Ac	quatic			
Alç	gae	IC50	Algae	7.8 mg/L, 72 Hours
Cr	rustacea	EC50	Daphnia	55 mg/L, 48 Hours
Fis	sh	LC50	Fathead minnow (Pimephales promelas)	100 mg/l, 96 hours
Trietha	nolamine (CAS 102-71	I-6)		
Ac	quatic			
Alg	gae	IC50	Algae	216 mg/L, 72 Hours
Cr	rustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours
Fis	sh	LC50	Fathead minnow (Pimephales promelas)	10610 - 13010 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-o	ctanol / water (log Kow)	
Diethanolamine	-1.43	
Mineral Spirits	3.16 - 7.15	
Triethanolamine	-1	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not all this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or dite with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

DOT	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Copper, Aluminum)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Copper, Aluminum)
Transport hazard class(es)	
Class	9
Subsidiary risk	-

Label(s)	9
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	155
IMDG	
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper, Aluminum)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT; IATA; IMDG	



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

for nogaratory mitormatic			
US federal regulations	This product is a "I Standard, 29 CFR	Hazardous Chemical" as defined by the OSHA Hazard Communication 1910.1200.	
TSCA Section 12(b) Expor	rt Notification (40 CFF	र 707, Subpt. D)	
Not regulated.			
CERCLA Hazardous Subs	tance List (40 CFR 30)2.4)	
Copper (CAS 7440-50-	8)	Listed.	
Diethanolamine (CAS 111-42-2)		Listed.	
SARA 304 Emergency rele	ease notification		
Not regulated.			
OSHA Specifically Regula	ted Substances (29 C	;FR 1910.1001-1050)	
Not regulated.			

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard	catego	ories
I I ME MI M	outog	

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

CAS number	% by wt.	
7440-50-8	20 - 40	
7429-90-5	1 - 2.5	
111-42-2	0.1 - 1	
	7440-50-8 7429-90-5	7440-50-8 20 - 40 7429-90-5 1 - 2.5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Diethanolamine (CAS 111-42-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS 111-42-2) Mineral Spirits (CAS 8052-41-3)

US. Massachusetts RTK - Substance List

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS 111-42-2) Graphite (CAS 7782-42-5) Mineral Spirits (CAS 8052-41-3) Triethanolamine (CAS 102-71-6)

US. New Jersey Worker and Community Right-to-Know Act

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS 111-42-2) Graphite (CAS 7782-42-5) Mineral Spirits (CAS 8052-41-3) Triethanolamine (CAS 102-71-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Crystalline Silica (CAS 14808-60-7) Diethanolamine (CAS 111-42-2) Graphite (CAS 7782-42-5) Mineral Spirits (CAS 8052-41-3) Triethanolamine (CAS 102-71-6)

US. Rhode Island RTK

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Diethanolamine (CAS 111-42-2)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date Revision date	08-03-2015 03-25-2016
Version #	03-25-2010
Disclaimer	We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.