



Conforms to Regulation (EC) No. 1907/2006 - United Kingdom (UK)

SAFETY DATA SHEET

JET-LUBE JET-LOK II - Slow Activator - Larger Bottle
Product classified as hazardous according to NOHSC classification

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

Identification of the substance or preparation
Product Name: JET-LOK II - Amide (Slow) Activator - Larger Bottle
Use of the substance/preparation: Activator - Amide & amine blend.
Company/undertaking identification
Manufacturer: Jet-Lube, Inc.
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Houston, TX 77028
Email: doldiges@jetlube.com USA Corporate phone: (713) 670-5700
Australian Contact: Xtex Pty. Ltd
ABN 40 121 722 236
80 Daly Street
Ascot, WA 6104 1300-00-9839 phone 0437-272-490 mobile
Emergency telephone numbers: NHS DIRECT in the UK USA: CHEMTREC: (800) 424-9300
Emergency number: 08454647 Outside US (Chemtrec): (703) 527-3887
Xtex Pty. Ltd 1300-00-XTEX

2. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.
Classification: Xn - Harmful
Physical/chemical hazards: See below
Human health hazards: See below
Environmental hazards: See below
See section 11 for more detailed information on health effects and symptoms.

3. Composition /information on ingredients

Table with 5 columns: Ingredient name, CAS Number, %, EC Number, Classification. Rows include Benzyl Alcohol, Mixed cycloaliphatic Amines, Polyamide Resin, Tertiary Amine, and Triethylenetetramine (TETA).

* Occupational Exposure Limit(s), if available, are listed in Section 8
The quantities of potential carcinogenic compounds detected in the oil are below the regulatory levels beyond which listing as carcinogenic material is required.

4. First aid measures

Effects and symptoms
Inhalation: May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation of the mucous membranes and in eczematous eruptions.
Ingestion: May cause severe and permanent damage to the digestive tract. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.
Skin Contact: Harmful if absorbed through the skin. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May cause severe irritation and possible burns.
Eye contact: Causes severe burns. Low vapor concentrations may cause temporary visual disturbance known as "Blue Haze" or "Halo Vision" Direct contact with liquid may cause blindness or permanent eye damage.
Inhalation: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Ingestion: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Obtain medical attention immediately.
Skin contact: Flush contaminated skin with plenty of water for 15 minutes. Remove contaminated clothing and shoes. Obtain medical attention immediately.
Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

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See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media:	Use an extinguishing agent suitable for the surrounding fire. Use water jet, dry chemical, carbon dioxide or appropriate foam.
Special exposures hazards:	No specific hazard.
Hazardous thermal decomposition products:	These products are carbon & nitrogen oxides.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions:	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precautions:	Clean up spills immediately. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up:	If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain material to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

7. Handling and storage

Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Use with adequate ventilation. Ground and bond containers when transferring materials. Take precaution to avoid static discharges. Do not inhale or ingest.
Storage:	Keep container tightly closed. Keep container in a cool, dry, well-ventilated area. Do not store in metal containers.
Packaging materials	
Recommended:	Use original container.
Specific uses:	Activator for epoxy adhesives

8. Exposure controls/personal protection

Ingredient Name:	Occupational exposure limits
OSHA Vacated PELs: Triethylenetetramine: No OSHA Vacated PELs are listed for this chemical.	

Exposure controls	
Occupational exposure controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Skin protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

Physical state:	Liquid
Color:	amber
Odor:	ammonia-like (fishy)
pH:	10
Boiling point:	>177 °C (351 °F)
Melting point:	-37.2 °C (-35 °F)
Flash point:	>117 °C (243 °F)
Flammability (solid, gas):	Not applicable
Explosive properties:	Not applicable
Explosive limits:	Lower: 1.1% Upper: 6.4%
Oxidizing properties:	Corrosive
Vapor pressure:	3 mm Hg @ 21 °C
Specific gravity:	1.01
Density:	1.01 g/cm ³
Solubility:	Slightly soluble in water.
Octanol/water partition coefficient:	Not available
Viscosity:	26.7 mPas @ 20°C
Vapor density:	>5 (Air = 1)
Evaporation rate (butyl acetate = 1):	<0.01 compared with Butyl acetate
Auto-ignition temperature:	337.8 °C (640.04 °F)

10. Stability and reactivity

Stability:	The product is stable under normal conditions and pressures.
Conditions to avoid:	Keep away from sources of ignition. Keep away from heat.
Materials to avoid:	Strong oxidizers, amines, strong acids, acrylates, alcohols, aldehydes, brass, bronze, copper, copper alloys, halogenated hydrocarbons and ketones.

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Oxides of carbon and nitrogen, ammonia, aldehydes, organic acid vapors and possible nitrosamines. 4v

Hazardous Decomposition products:

Hazardous polymerization: Not available

11. Toxicological information

Potential acute health effects

Inhalation: May cause irritation or burns.
Ingestion: May cause irritation or burns.
Skin contact: May cause irritation or burns.
Eye contact: May cause irritation or burns.

Acute toxicity

Ingredient name

Ingredient name	Test	Result	Route	Species
Triethylenetetramine (TETA)	Draize test	49 mg	eye, severe	Rabbit
	Draize test	20 mg/24H	eye, severe	Rabbit
	Draize test	5 mg/24H	skin, severe	Rabbit
	LD-50	1600 mg/kg	Oral	Mouse
	LD-50	5500 mg/kg	Oral	Rabbit
	LD-50	2500 mg/kg	Oral	Rat
Slow Activator blend	LD-50	805 mg/kg	skin	Rabbit
	LD-50	2020 mg/kg	Ingestion	Rat
Slow Activator blend	LC-50	No Data	Inhalation	
Benzyl alcohol	LC-50 (4 hr)	>4.178 mg/l	Inhalation	Rat
Slow Activator blend	LD-50	No Data	Dermal	
Benzyl alcohol	LD-50	2000 mg/l	Dermal	Rabbit
Mixed Cycloaliphatic amines	LD-50	>1000 mg/l	Dermal	Rabbit
Triethylenetetramine (TETA)	LD-50	550 mg/l	Dermal	Rabbit
Tertiary Amine	LD-50	1242 mg/l	Dermal	Rabbit

Potential chronic health effects

Carcinogenicity: No known significant effects or critical hazards.

California Prop 65:

None

Australian National Health & Safety Commission (NOSC):

None

Mutagenicity:

Mutagenic effects including mutation, sister chromatid exchange and unscheduled DNA synthesis were observed in laboratory experiments involving microorganisms, rat liver cells and hamster ovaries.

Reproductive toxicity:

Administration of doses greater than the LD-50 to the mother caused reproductive effects in rat fetuses including increased rates of post-implantation mortality, stunted fetal growth and fetal death.

Over-exposure signs/symptoms

Inhalation: Irritation & Burns
Ingestion: Irritation & Burns
Skin: Irritation & Burns

Target organs:

No known significant effects or critical hazards.

Other adverse effects:

Not available

12. Ecological information

Ecotoxicity data

Ingredient name		Species	Period	Result
Slow Activator blend	Aquatic			No data
Benzyl alcohol	fish	Lepomis macrochirus	LC-50 - 96 hr	10 mg/l
Benzyl alcohol	fish	Pimephales promelas	LC-50 - 96 hr	460 mg/l
Benzyl alcohol	Algae		LC-50 - 72 hr	700 mg/l

Other ecological information

Persistence/degradability:

Ingredient name	BOD	COD	ThOD
Slow Activator blend	Not available	Not available	Not available

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Slow Activator blend	Not available	Not available	Not available

Mobility:

Not available

Other adverse effects:

No known significant effects or critical hazards.

13. Disposal consideration

Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste:

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. Transport information

Hazchem code 1Z


International transport regulations

Regulatory information	UN Number	Proper shipping name	UN Number	Packing group	Class	Label
ADR/RID Class	Not regulated	ADR/RID Class				-


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ADNR Class	Not regulated	ADNR Class				-
IMDG Class	Not regulated	IMDG Class				-
IATA-DGR Class	Not regulated	IATA-DGR Class				-
Australia ADG Code	Not regulated					Reference SP-AU01

15. Regulatory information

Poison Schedule	Not scheduled
EU Regulations	
EU Regulations	
Hazard symbol/symbols:	
Risk Phrases:	R20/22 - Harmful by inhalation and if swallowed R43 - May cause sensitization by skin contact
Safety Phrases:	S23 :Do not breathe fumes/vapor/spray. S24/S25 - Avoid contact with skin and eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 - After contact with skin, wash immediately with plenty of water. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S46 - If swallowed, seek medical advice immediately and show this container or label.
Risk Phrases:	This product is not classified according to EU legislation.
Product use:	Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use. Industrial applications.
Other EU regulations	
Additional warning phrases:	Safety data sheet available for professional user on request.
Restrictions on the marketing and use directive:	Not applicable.
National regulations United Kingdom (UK)	
COSHH:	The use of this chemical product must be in compliance with provisions included in COSHH (1999) and COSHH Essentials (1999).
US Regulations:	TSCA: All components are listed. (See Section 3). TSCA 12B Components: None
SARA 313 (40 CFR Part 372):	This material contains Materials which are subject to the reporting requirements.
SARA 311/312:	None
CERCLA RQ: N/A	OZONE DEPLETING CHEMICALS: None
TSCA REGULATORY: This material or its components are listed in the TSCA inventory.	
RCRA Hazard class: N/A	
Clean Air Act Sect 112 Hazardous Air Pollutants (HAPs): None	Volatile Organic Chemicals (VOCs): Nil
State Right to Know:	New Jersey: Pennsylvania: Massachusetts: Rhode Island :
Canadian Regulations:	DSL: All components are listed. (See Section 3)
WHMIS: CLASS B-2:	Not regulated
RoHS Compliance	This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive above the restricted levels.

16. Other information

History	
Date of printing:	August 16, 2010
Date of issue:	August 16, 2010
Date of previous issue:	No previous validation
Version:	2
Prepared by:	
Name & Title	Donald Oldiges, VP of Research & Development
NFPA Rating: (estimated) Health: 2; Flammability: 1; Reactivity: 0	
Notice to reader:	

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