



A CSW Industrials Company

# SAFETY DATA SHEET

Issuing Date 06-Jun-2016

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Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name JET-LOK II – SINGLE ACTIVATOR

### Other means of identification

Product Code(s) 608 - Activator

UN-Number UN2320

Synonyms

### Recommended use of the chemical and restrictions on use

Recommended Use Activator for adhesive & Sealant

Uses advised against No information available

### Supplier's details

#### **Manufacturer Address**

Jet-Lube, LLC  
930 Whitmore Dr.  
Rockwall, Texas 75087  
TEL: 972-771-1000  
Toll Free: 1-800-669-6318

### Emergency telephone number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)  
1-800-424-9300 (NORTH AMERICA)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Skin Corrosion/Irritation	Category 1 Subcategory 1B
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal Word Danger

**Hazard Statements**

- Harmful if swallowed
- Harmful in contact with skin
- Causes severe skin burns and eye damage
- May cause an allergic skin reaction

**Appearance** Amber**Physical State** Liquid.**Odor** Fishy**Precautionary Statements****Prevention**

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Contaminated work clothing should not be allowed out of the workplace.

**General Advice**

- Specific measures (see supplemental first aid instructions on this label)
- Immediately call a POISON CENTER or doctor/physician.

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

**Skin**

- Call a POISON CENTER or doctor/physician if you feel unwell.
- Wash contaminated clothing before reuse.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.
- Do NOT induce vomiting.

**Storage**

- Store locked up.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Toxic to aquatic life with long lasting effects

90% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** Vermeer - SINGLE ACTIVATOR - TEPA; ILEX - SINGLE ACTIVATOR

Chemical Name	CAS-No	Weight %	Trade secret
Tetraethylenepentamine	112-57-2	<25	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of necessary first-aid measures

<b>General Advice</b>	Immediate medical attention is required. Take off contaminated clothing and shoes immediately. Move victim to a safe isolated area
<b>Eye Contact</b>	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin Contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician or Poison Control Center immediately.
<b>Ingestion</b>	Immediate medical attention is required. Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** Burning. Itching

#### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use: Water spray. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

#### Specific Hazards Arising from the Chemical

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

#### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

### Environmental Precautions

**Environmental Precautions** Do not allow material to contaminate ground water system. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

### Methods and materials for containment and cleaning up

**Methods for Containment** Dike far ahead of liquid spill for later disposal.

**Methods for Cleaning Up** Small spillage: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Large spillage: Dam up. Take up mechanically and collect in suitable container for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. Metal containers must be lined.

**Incompatible Products** Strong oxidizing agents. Strong acids. Copper. Halogenated hydrocarbons Aluminium. Zinc.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.  
**Skin and Body Protection** Impervious clothing. Boots. Chemical resistant apron. Impervious butyl rubber gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.  
**Respiratory Protection** In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit  
**Hygiene Measures** Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Appearance</b>	Amber
<b>Odor</b>	Fishy	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	Alkaline	None known
Melting Point/Range	< -40 °C / < -40 °F	None known
Boiling Point/Boiling Range	> 200 °C / > 392 °F	None known
Flash Point	> 175 °C / 345 °F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	1.02	None known
Water Solubility	Completely soluble	None known
Solubility in other solvents	Depends on polarity.	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

**Flammable Properties**                      Not flammable

**Explosive Properties**                      No data available

**Oxidizing Properties**                      No data available

### Other information

**VOC Content (%)**                              No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Extremes of temperature and direct sunlight. Incompatible products.

### Incompatible materials

Strong oxidizing agents. Strong acids. Copper. Halogenated hydrocarbons Aluminium. Zinc.

### Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

##### Inhalation

Harmful if inhaled. Irritating to mucous membranes.

##### Eye Contact

Causes serious eye damage. Corrosive to the eyes and may cause severe damage including blindness. Expected to be severely irritating or corrosive to eyes based on components present in formulation.

##### Skin Contact

Causes severe skin burns. Corrosive. May cause allergic skin reaction

##### Ingestion

Harmful if swallowed. Ingestion of corrosive substances can cause burns of the upper digestive and respiratory tract.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetraethylenepentamine	= 2100 mg/kg ( Rat )	= 660 mg/kg ( Rabbit )	-

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Sensitization** May cause sensitization of susceptible persons. May cause sensitization by skin contact.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

### Numerical measures of toxicity - Product

**Acute Toxicity** 90% of the mixture consists of ingredient(s) of unknown toxicity.

*The following values are calculated based on chapter 3.1 of the GHS document:*

**LD50 Oral** 500 mg/kg; Acute toxicity estimate  
**LD50 Dermal** 1100 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Tetraethylenepentamine 112-57-2	EC50 72 h: = 2.1 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 420 mg/L static (Poecilia reticulata)		EC50 48 h: = 24.1 mg/L (Daphnia magna)

**Persistence and Degradability** No information available.

### Bioaccumulation

Chemical Name	Log Pow
Tetraethylenepentamine	0.999

### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	Dispose of in accordance with federal, state, and local regulations
<b>Contaminated Packaging</b>	Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

### DOT

<b>UN-Number</b>	UN2320
<b>Proper shipping name</b>	Tetraethylenepentamine
<b>Hazard Class</b>	8
<b>Subsidiary Class</b>	
<b>Packing Group</b>	III
<b>Description</b>	UN2320,Tetraethylenepentamine,8,PG III
<b>Emergency Response Guide Number</b>	153

### TDG

<b>UN-Number</b>	UN2320
<b>Proper Shipping Name</b>	Tetraethylenepentamine
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Description</b>	UN2320,TETRAETHYLENEPENTAMINE,8,PG III

### MEX

<b>UN-Number</b>	UN2320
<b>Proper Shipping Name</b>	Tetraethylenepentamine
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Description</b>	UN2320 Tetraethylenepentamine,8,III

### ICAO

<b>UN-Number</b>	UN2320
<b>Proper shipping name</b>	Tetraethylenepentamine (mixture)
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Description</b>	UN2320,Tetraethylenepentamine (mixture),8,PG III

### IATA

<b>UN-Number</b>	UN2320
<b>Proper Shipping Name</b>	Tetraethylenepentamine (mixture)
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>ERG Code</b>	8L
<b>Description</b>	UN2320,Tetraethylenepentamine (mixture),8,PG III

### IMDG/IMO

<b>UN-Number</b>	UN2320
<b>Proper Shipping Name</b>	Tetraethylenepentamine (mixture)
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>EmS No.</b>	F-A, S-B
<b>Description</b>	UN2320, Tetraethylenepentamine (mixture),8,PG III

### RID

<b>UN-Number</b>	UN2320
<b>Proper Shipping Name</b>	Tetraethylenepentamine (mixture)
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Classification Code</b>	C7
<b>Description</b>	UN2320 Tetraethylenepentamine (mixture),8,III

### ADR

<b>UN-Number</b>	UN2320
<b>Proper Shipping Name</b>	Tetraethylenepentamine (mixture)
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Classification Code</b>	C7
<b>Tunnel Restriction Code</b>	(E)
<b>Description</b>	UN2320 Tetraethylenepentamine (mixture),8,III(E)

**ADN**

<b>UN-No</b>	UN2320
<b>Proper Shipping Name</b>	Tetraethylenepentamine
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Classification Code</b>	C7
<b>Description</b>	UN2320 Tetraethylenepentamine,8,III
<b>Hazard Labels</b>	8
<b>Limited Quantity</b>	LQ7

**15. REGULATORY INFORMATION**

**International Inventories**

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list.

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>	<b>Illinois</b>	<b>Rhode Island</b>
Tetraethylenepentamine	X	X	X		

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable



<b>16. OTHER INFORMATION</b>				
<b><u>NFPA</u></b>	<b>Health Hazard</b> 3	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and Chemical Hazards -</b>
<b><u>HMIS</u></b>	<b>Health Hazard</b> 3	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

<b><u>NFPA</u></b>	<b>Health Hazard</b> 3	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and Chemical Hazards -</b>
<b><u>HMIS</u></b>	<b>Health Hazard</b> 3	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
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<b>Revision Note</b>	Updated company information.

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**