



A CSW Industrials Company

SAFETY DATA SHEET

Issuing Date 06-Jun-2016

Revision Date 09-Mar-2017

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

| | |
|-----------------------------------|---|
| General Advice | Immediate medical attention is required. Take off contaminated clothing and shoes immediately. Move victim to a safe isolated area |
| Eye Contact | 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. |
| Skin Contact | Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. |
| Inhalation | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician or Poison Control Center immediately. |
| Ingestion | 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. |
| Protection of First-aiders | 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 (CO₂). 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

| | |
|---|-------|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | 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

| | | | |
|-----------------------|--------|-----------------------|--------------------------|
| Physical State | Liquid | Appearance | Amber |
| Odor | Fishy | Odor Threshold | 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

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

14. TRANSPORT INFORMATION

DOT

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

TDG

| | |
|-----------------------------|--|
| UN-Number | UN2320 |
| Proper Shipping Name | Tetraethylenepentamine |
| Hazard Class | 8 |
| Packing Group | III |
| Description | UN2320,TETRAETHYLENEPENTAMINE,8,PG III |

MEX

| | |
|-----------------------------|-------------------------------------|
| UN-Number | UN2320 |
| Proper Shipping Name | Tetraethylenepentamine |
| Hazard Class | 8 |
| Packing Group | III |
| Description | UN2320 Tetraethylenepentamine,8,III |

ICAO

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

IATA

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

IMDG/IMO

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

RID

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

ADR

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

ADN

| | |
|-----------------------------|-------------------------------------|
| UN-No | UN2320 |
| Proper Shipping Name | Tetraethylenepentamine |
| Hazard Class | 8 |
| Packing Group | III |
| Classification Code | C7 |
| Description | UN2320 Tetraethylenepentamine,8,III |
| Hazard Labels | 8 |
| Limited Quantity | 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

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | 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.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|------------------------|------------|---------------|--------------|----------|--------------|
| Tetraethylenepentamine | X | X | X | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

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

| | |
|----------------------|--|
| Prepared By | Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501 |
| Issuing Date | 06-Jun-2016 |
| Revision Date | 09-Mar-2017 |
| Revision Note | 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