## Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

| Common Name | Hangsterfer's Antiwear 32 | Code | H-AnWr32-03_D |
| :---: | :---: | :---: | :---: |
| Supplier | Company Name: <br> Company Address: <br> Phone: <br> Fax: | MSDS\# | 00955 |
|  |  | Validation Date | 4/1/2003 |
|  |  | Print Date | 10/14/2003 |
| Synonym | Machine Lubricant |  | Emergency Response: Chemtrec: (800) 424-9300 (USA) or (703) 527-3887 If there are any questions regarding this MSDS, contact Hangsterfer's Laboratories. Phone: (856) 468-0216. |
| Trade name | Antiwear 32 |  |  |
| Material Uses | Metal industry: Metalworking fluid |  |  |
| Manufacturer | Hangsterfer's Laboratories P.O. Box 128 <br> Mantua, NJ 08051 USA <br> Phone: (856) 468-0216 <br> Fax: (856) 468-0200 |  |  |

## Section 2. Composition and Information on Ingredients

| Name | CAS \# | \% by <br> Weight | TLV/PEL | LC $_{50} / \mathbf{L D}_{50}$ |
| :--- | :--- | :---: | :---: | :---: |
| No hazardous ingredient. |  |  |  |  |

## Section 3. Hazards Identification

Routes of Entry

Potential Acute Health
Effects

Potential Chronic Health
Effects

Eyes: Highly unlikely - Flush eyes with running water for at least 15 minutes. Get medical attention if necessary.
Skin: Highly unlikely - Remove clothing and launder. Wipe off excess, and wash with mild soap and water. Inhalation: Highly unlikely - Place person in well ventilated area/location. Seek medical attention if necessary.
Ingestion: Highly unlikely - Do not induce vomiting. Seek immediate medical attention.
Non-irritating to the eyes. Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-hazardous in case of inhalation. Very slightly to slightly irritating in case of ingestion.

No known chronic health effects according to our database.
CARCINOGENIC EFFECTS: None. MUTAGENIC EFFECTS: None. TERATOGENIC EFFECTS: None. The substance is not toxic to blood, kidneys, lungs, the nervous system, the reproductive system, liver, mucous membranes, heart, bladder, spleen, brain, digestive system, lymphatic system, peripheral nervous system, gastro-intestinal tract, cardiovascular system, upper respiratory tract, endocrins, immune system.

## Section 4. First Aid Measures

| Eye Contact | Flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. <br> Seek medical attention if necessary. |  |  |
| :--- | :--- | :---: | :---: |
| Skin Contact | Wipe off excess, and wash with mild soap and water. Seek medical attention if necessary. |  |  |
| Hazardous Skin Contact | No additional hazardous information. |  |  |
| Inhalation | Place the person in a well ventilated area. Seek medical attention if necessary. |  |  |
| Hazardous Inhalation | No additional hazardous information. |  |  |
| Continued on Next Page |  |  |  |

Ingestion

Hazardous Ingestion

Do not induce vomiting. Have conscious person drink several glasses of water or milk. If the person is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention immediately and show the container, label or Material Safety Data Sheet.

No additional hazardous information.

## Section 5. Fire and Explosion Data

Flammability of the Product Combustible at elevated temperatures.
Auto-Ignition Temperature Not determined.
Flash Points OPEN CUP: $215^{\circ} \mathrm{C}\left(420^{\circ} \mathrm{F}\right)$ (Cleveland).
Flammable Limits LOWER: 1\% UPPER: 7\%

Products of Combustion
Products of combustion can include carbon oxides $\left(\mathrm{CO}, \mathrm{CO}_{2}\right)$.

Fire Hazards in Presence of
Various Substances

Explosion Hazards in
Presence of Various
Substances

Fire Fighting Media SMALL FIRE: Use DRY chemicals, $\mathrm{CO}_{2}$, water spray or foam.
and Instructions
Very slightly to slightly flammable in presence of open flames and sparks.
Non-flammable in presence of shocks, of heat, of oxidizing materials, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of alkalis, of moisture.
Non-explosive in presence of shocks, of heat, of oxidizing materials, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of alkalis, of moisture.
LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Special Remarks on
Fire Hazards
Special Remarks on Explosion No additional remark.
Hazards

## Section 6. Accidental Release Measures

Small Spill

Large Spill

Mop up or absorb with an inert DRY material and place in an appropriate container.
Combustible material at elevated temperatures. Keep away from open flames, sparks, and sources of ignition. Stop leak if without risk. Mop up or absorb and place in appropriate container(s).

## Section 7. Handling and Storage

Handling
Avoid contact with eyes. Keep container closed. Use in a well-ventilated area. Wash thoroughly after handling. Do not puncture or incinerate container(s).
Storage Store in a cool, dry, well-ventilated area and out of direct sunlight. Keep away from open flames, sparks, and sources of ignition. Emptied containers may contain product residues. Precautions also apply to product residues.

## Section 8. Exposure Controls/Personal Protection

Engineering Controls

Personal Protection a Large Spill

Personal Protection in Case of Splash glasses/goggles. Full suit. Boots. Gloves. Suggested clothing should be sufficient; contact the
Good general ventilation should be sufficient to control airborne levels if user/worker activities generate mist(s). However, local exhaust ventilation may be necessary in areas of poor ventilation.

Safety glasses. Work Apparel . Gloves. manufacturer regarding questions with this product.

| Chemical Name or Product Name | CAS \# | Exposure Limits |
| :--- | :--- | :--- |
| 1) Severely Refined Petroleum Distillates(heavy): If <br> mists are generated, the following exposure limits | $64742-52-5$ | TWA: $5\left(\mathrm{mg} / \mathrm{m}^{3}\right)$ from ACGIH (TLV) |
|  |  | TWA: $5\left(\mathrm{mg} / \mathrm{m}^{3}\right)$ from OSHA (PEL) | mists are generated, the following exposure limits apply:

## Section 9. Physical and Chemical Properties



## Section 10. Stability and Reactivity Data

Chemical Stability The product is stable.
Conditions of Instability No additional remark.

Incompatibility with various
substances

Reactive with acids.
Slightly reactive to reactive with oxidizing agents.
Very slightly to slightly reactive with alkalis.
Non-reactive with reducing agents, combustible materials, organic materials, metals, moisture.
Hazardous Decomposition
Products
Hazardous Polymerization

Decomposition can result in release of carbon oxides $\left(\mathrm{CO}, \mathrm{CO}_{2}\right)$.

Will not occur.

## Section 11. Toxicological Information

| Toxicity to Animals | Acute oral toxicity (LD50): $>5000 \mathrm{mg} / \mathrm{kg}$ (Rat). <br> Acute Dermal Irritation/Corrosion (OECD 404): Result: Non-irritating and Non-corrosive(Rabbit). |
| :--- | :--- |
| Chronic Effects on Humans | No known chronic effects on humans. |
| Other Toxic Effects on <br> Humans | No additional remark. |
| Special Remarks on <br> Toxicity to Animals <br> Special Remarks on <br> Chronic Effects on Humans <br> Special Remarks on other <br> Toxic Effects on Humans | No additional remark. |
|  |  |

## Section 12. Ecological Information

| Ecotoxicity | Not determined to be an ecotoxin. |
| :--- | :--- |
| BOD5 and COD | Contact the manufacturer for further information. |
| Products of Biodegradation | Products of biodegradation can include carbon oxides(CO, $\left.\mathrm{CO}_{2}\right)$. |
| Toxicity of the Products <br> of Biodegradation | The products of degradation are non-toxic. |
| Special Remarks on the <br> Products of Biodegradation | No additional remark. |

## Section 13. Disposal Considerations

Waste Disposal
Recycle to process, if possible. Consult your local or regional authorities. Dispose of in accordance with local and federal regulations. Contact the manufacturer for further information.

## Section 14. Transport Information

DOT Classification Not a DOT controlled material in the United States of America(U.S.A.). Product is considered safe for transport in the U.S.A. Product is not regulated by the United Nations(U.N.).

Propper Shipping Name
NONE

DOT Identification Number Not applicable (PIN and PG).

Packing Group
NONE

Hazardous Substances Not applicable.
Reportable Quantity
Special Provisions for No special provisions for transport.
Transport
TDG Classification Not controlled under TDG (Canada).
IMDG Classification
Not controlled under IMDG.
IATA Classification
Not controlled under IATA.

## Section 15. Regulatory Information

Federal and State
Regulations

All ingredients that make up this product are listed on the TSCA inventory and are approved for industry use in the U.S.A.

None of the ingredients that make up this product are listed on or regulated by Proposition 65(CA).
All ingredients that make up this product are listed on the Canadian Domestic Substances List(DSL/LIS) and are approved for import and use in Canada.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).
DSCL (EEC) Not controlled under DSCL(Europe).
Japan: Not controlled under the Chemical Substance Control Law(MITI).
Australia: Not controlled under the National Industrial Chemicals Notification and Assessment Act(NICNAS).

## Section 16. Other Information

HMIS (U.S.A.)


References Manufacturer's Information Database.
Other Special Mineral Oil mist(s) may develop when the product is misted. Exposure limits for such mist(s): OSHA PEL: 5.0
Considerations $\mathrm{mg} / \mathrm{m} 3$ ( 8 -hour TWA). ACGIH TLV: $5.0 \mathrm{mg} / \mathrm{m} 3$. ACGIH STEL: $10.0 \mathrm{mg} / \mathrm{m} 3$.

IP 346 DMSO Solvent Extractable Polycyclic Aromatic Hydrocarbons (PCA's, PAH's): Pass

| Validated by Manufacturer on 4/1/2003. | Verified by Company. |
| :--- | :--- |
|  | Printed 10/14/2003. |

Emergency Response: Chemtrec: (800) 424-9300 (USA) or (703) 527-3887 If there are any questions regarding this MSDS, contact Hangsterfer's Laboratories. Phone: (856) 468-0216.

Notice to Reader

 that these are the only hazards that exist.

