MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name: ANTIFOAM NS

MATERIAL WORKING FLUID ADDITIVE

Version #: 02
Issue date: 09-27-2013
Revision date: 09-30-2013
Supersedes date: 09-27-2013
CAS #: Mixture
Product use: METALWORKING FLUID ADDITIVE

Manufacturer

Company name: CIMCOOL® Industrial Products LLC
3000 Disney Street
Cincinnati, Ohio 45209

Telephone (General Information): 513-458-8199
Emergency telephone number: 1-800-424-9300 (CHEMTREC)
Emergency telephone number (outside USA): 1-703-527-3887 (CHEMTREC)

2. Hazards Identification

Emergency overview: Product is combustible. Causes serious eye irritation. Avoid prolonged contact with eyes, skin and clothing. Highway spills could result in slippery conditions.

OSHA regulatory status: This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects:

Routes of exposure: Skin contact. Eye contact.

Eyes: Irritating to eyes. Avoid contact with eyes.

Skin: Health injuries are not known or expected under normal use. Product is not a primary skin irritant.

Inhalation: Health injuries are not known or expected under normal use.

Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not ingest. Not orally toxic.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures

First aid procedures:

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 immediately.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention.

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Get medical attention if symptoms persist.

Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Drink 1 or 2 glasses of water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

Notes to physician: Provide general supportive measures and treat symptomatically.

General advice: If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire Fighting Measures

Flammable properties
Not flammable by OSHA criteria. Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Wear suitable protective equipment.

Fire fighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

Hazardous combustion products
Smoke, fumes, and oxides of carbon

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Do not touch or walk through spilled material. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods for containment
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up
Ventilate the contaminated area. Extinguish all flames in the vicinity. Wear appropriate protective equipment and clothing during clean-up. The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

Other information
Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling
Keep away from heat and sources of ignition. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not breathe vapor. Do not ingest. Avoid contact with skin and eyes. Avoid prolonged and repeated contact. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Practice good housekeeping. Handle and open container with care. Do not empty into drains. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

Storage
Do not handle or store near an open flame, heat or other sources of ignition. To maintain product quality, do not store in heat or direct sunlight. Store in original tightly closed container. Keep containers closed when not in use. Store in a cool, dry place out of direct sunlight. Do not allow material to freeze. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the MSDS). Keep away from heat, sparks, and flame.

8. Exposure Controls / Personal Protection

Engineering controls
Ensure compliance with applicable exposure limits. 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.
### Personal protective equipment
- **Eye / face protection**: Avoid contact with eyes. Wear eye/face protection. Wear safety glasses with side shields (or goggles).
- **Skin protection**: Wear suitable protective clothing and eye/face protection.
- **General hygiene considerations**: Do not get in eyes, on skin, on clothing. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical & Chemical Properties
- **Appearance**: TRANSLUCENT
- **Physical state**: Liquid.
- **Form**: Liquid.
- **Color**: Not available.
- **Odor**: CHEMICAL
- **Odor threshold**: Not available.
- **pH**: Not Applicable
- **Vapor pressure**: Not available.
- **Vapor density**: Not available.
- **Boiling point**: > 400 °F (> 204.44 °C)
- **Melting point/Freezing point**: Not available.
- **Solubility (water)**: Insoluble
- **Specific gravity**: 0.88
- **Relative density**: Not available.
- **Flash point**: 260 °F (126.7 °C) Cleveland Open Cup
- **Flammability limits in air, upper, % by volume**: Not available.
- **Flammability limits in air, lower, % by volume**: Not available.
- **Auto-ignition temperature**: Not available.
- **Other data**:
  - **Flash point class**: Combustible IIIB
  - **VOC ASTM D2369**: Not Determined

### 10. Chemical Stability & Reactivity Information
- **Chemical stability**: Material is stable under normal conditions.
- **Conditions to avoid**: Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials. None under normal conditions.
- **Incompatible materials**: Strong acids. Avoid contact with oxidizers or reducing agents.
- **Hazardous decomposition products**: Smoke, fumes, and oxides of carbon
- **Possibility of hazardous reactions**: No dangerous reaction known under conditions of normal use.

### 11. Toxicological Information
- **Acute effects**: May be harmful if swallowed and enters airways.
- **Carcinogenicity**: Not classified.
- **Skin corrosion/irritation**: May be irritating to the skin. Defatting, drying and cracking of skin.
- **Further information**: This product has no known adverse effect on human health.

### 12. Ecological Information
- **Persistence and degradability**: Not available.
Mobility in environmental media

The product is immiscible with water and will spread on the water surface.

13. Disposal Considerations

Waste codes

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

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

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

Section 302 extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

Inventory status

<table>
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<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory or exempt (yes/no)*</th>
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<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
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<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
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<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
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<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
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<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
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<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
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</table>

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MSDS US
<table>
<thead>
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<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory or exempt (yes/no)*</th>
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<tbody>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
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<td>New Zealand</td>
<td>New Zealand Inventory</td>
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<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
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</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*

**State regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List  
Not regulated.

US. Pennsylvania RTK - Hazardous Substances  
Not regulated.

US. Rhode Island RTK  
Not regulated.

**US state regulations**

California South Coast Air Quality Management District (SCAQMD) Rule 1144 (VOC Emissions): This product is not subject to California's South Coast Air Quality Management District Rule 1144 (Rule only applicable to Metalworking Fluids, Vanishing Oils and Rust Inhibitors).

**16. Other Information**

Further information  
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings  
Health: 1  
Flammability: 1  
Physical hazard: 0

NFPA ratings  
Health: 1  
Flammability: 1  
Instability: 0

Disclaimer  
The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. This safety data sheet was prepared in accordance with JIS Z 7253:2012. Additional information is given in the Material Safety Data Sheet. The information in the sheet was written based on the best knowledge and experience currently available.

This data sheet contains changes from the previous version in section(s):  
Physical & Chemical Properties: Multiple Properties  
Regulatory Information: United States  
GHS: Classification