



SAFETY DATA SHEET

1.1 Product Identifiers

Product Name : Synthetic Coolant S-122

1.2 Product usage

Recommended Usage : Not available
Restricted Usage : Not known

1.3 Emergency support

Emergency Support : CHEMTREC
United States +1(800) 424-9300
International +01(703) 527-3887

1.4 Supplier Information

David Weber Oil Company
601 Industrial Road
Carlstadt, NJ 07072

Phone: 201-438-7333
Fax: 201-438-3178
Email: sales@weberoil.com

Section 2- Hazards Identification

| | | |
|------------------------------|---|---|
| Physical Hazards | Not Classified | |
| Health Hazards | Acute toxicity, oral | Category 4 |
| | Skin corrosion/irritation | Category 1 |
| | Serious eye damage/eye irritation | Category 1 |
| | Sensitization, skin | Category 1 |
| | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| Environmental Hazards | Not classified. | |
| OSHA Defined Hazards | Not classified. | |

Label Elements

Signal Word Danger
Hazard Statement Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

Precautionary statement

Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/ eye protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Remove all contaminated clothing immediately. Rinse skin with water/shower. If inhaled: Remove person to fresh air. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: get medical attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise Classified (HNOC)

None known.

Supplemental information

84.7% of the mixture consists of component(s) of unknown acute oral toxicity. 92.6% of the mixture consists of component(s) of unknown acute inhalation toxicity.

Section 3 - Composition/ Information on Ingredients

3.1 Substance details

| Chemical Name | CAS# | %Weight |
|--|----------|---------|
| 2-aminoethanol | 141-43-5 | 2-5% |
| Triethanolamine | 102-71-6 | 2-5% |
| Other Components below reportable levels | | 40-45% |

Section 4 – First aid Measures

4.1 First aid measures

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| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison center or doctor/physician if you feel unwell. |
| Skin Contact | : Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse. |
| Eye Contact | : Immediately flush eyes with plenty of water for at least 15 minutes. Check and remove any contact lenses. Continue to rinse for at least 20 minutes. Call a physician or poison control center immediately. |
| Ingestion | : Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| Most Important symptoms/ Effects, acute and delayed | : Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. |
| Indication of immediate medical attention and special treatment needed | : Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |
| General Information | : If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |

Section 5 – Fire Fighting

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| Suitable extinguishing media | : Water fog. Foam. Dry Chemical Powder. Carbon dioxide (CO ₂) |
| Unsuitable extinguishing media | : Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | : During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | : Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/ instructions | : Move containers from fire area if you can do so without risk. |
| Specific methods | : Use standard firefighting procedures and consider the hazards of other involved materials. |
| Specific methods | : Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | : No unusual fire or explosion hazards noted. |

Section 6 - Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | : Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean up. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 9 of the SDS. |
| Methods and materials for containment and cleaning up | : This product is miscible in water. 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. 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 to original containers for re-use. For waste disposal, see section 13 of SDS. |
| Environmental precautions | : Avoid discharge into drains, water courses or onto ground. |

Section 7 - Handling & Storage

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| Precautions for safe handling | : Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | : Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS.) |

Section 8 - Exposure Control/ Personal Protection

| Occupational exposure limits | | |
|---|------|-------------------------------|
| Components | Type | Value |
| US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) | | |
| 2-aminoethanol (CAS 141-43-5) | PEL | 6 mg/m ³ 3 ppm |
| US ACGIH Threshold Limit Values | | |
| 2-aminoethanol (CAS 141-43-5) | STEL | 6ppm |
| | TWA | 3 PPM |
| Triethanolamine (CAS 102-71-6) | TWA | 5mg/m ³ |
| US. NIOSH: Pocket Guide to Chemical Hazards | | |
| 2-aminoethanol (CAS 141-43-5) | STEL | 15 mg/m ³ 6 ppm |
| | TWA | 8mg/m ³ 3 ppm |

Biological limit values : No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls : 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 to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection : Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other : Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge.

Thermal hazards : Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations : 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. Contaminated work clothing should not be allowed out of the workplace.

Section 9 - Physical & Chemical Properties

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| Appearance | : Clear |
| Physical state | : Liquid |
| Form | : Liquid |
| Color | : Blue |
| Odor | : Slight |
| Odor threshold | : Not available |
| pH | : 10.2 |
| Melting Point/Freezing Point | : 61.22 °F (16.23°C) estimated |
| Initial Boiling Point / Range | : 212°F (100°C) |
| Flash Point | : >221.0 °F (>100.0°C) Cleveland Open Cup |
| Evaporation rate | : Not available |
| Flammability (solid, gas) | : Not applicable |
| Upper/lower flammability or explosive limits | |
| Flammability Limit - lower (%) | : Not available |
| Flammability Limit - upper (%) | : Not available |
| Explosive Limit – lower (%) | : Not available |
| Explosive Limit- upper (%) | : Not available |
| Vapor pressure | : Not available |
| Vapor density | : Not available |
| Relative Density | : Not available |
| Solubility (water) | : Soluble in water |
| Partition coefficient (n-octanol/water) | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| Viscosity | : Not available |
| Other information | |
| Density | : 8.90 lbs/gal |
| Explosive properties | : Not explosive |
| Flammability class | : Combustible III B estimated |
| Flash Point class | : Combustible III B |
| Oxidizing properties | : Not oxidizing |
| Specific gravity | : 1.06 - 1.08 |

Section 10 - Stability & Reactivity

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| Reactivity | : The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | : Material is stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reaction known under normal conditions. |
| Conditions to avoid | : Contact with incompatible materials |
| Incompatible materials | : Strong acids. Strong oxidizing agents. Peroxides. Phenols. |
| Hazardous decomposition products | : Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |

Section 11- Toxicological Information

Information on likely routes of exposure

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| Inhalation | : May cause irritation to the respiratory system. Prolonged inhalation may be harmful. |
| Skin Contact | : Causes severe skin burns. May cause an allergic skin reaction. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans |
| Eye Contact | : Causes serious eye damage. |
| Ingestion | : Causes digestive tract burns. Harmful if swallowed. |
| Symptoms related to the physical chemical and toxicological characteristics | : Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. |

Information on toxicological effects

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| Acute toxicity | : In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if swallowed. May cause and allergic skin reaction. May cause respiratory irritation. |
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| Product | Species | Test Results |
|--------------------------------|----------------|-----------------------|
| Synthetic Coolant S-122 | | |
| Acute Dermal | | |
| LD50 | Rabbit | 14950 mg/kg estimated |
| Oral | | |
| LD50 | Guinea pig | 8332 mg/kg estimated |
| | Mouse | 10938 mg/kg estimated |
| | Rat | 57 g/kg estimated |
| Components | Species | Test Results |
| 2-aminoethanol (CAS 141-43-5) | | |
| Acute Dermal | | |
| LD50 | Rabbit | 1025 mg/kg |
| Oral | | |
| LD50 | Guinea pig | 620 mg/kg |
| | Mouse | 700 mg/kg |
| | Rat | 10.2 g/kg |
| Triethanolamine (CAS 102-71-6) | | |
| Acute Dermal | | |
| LD50 | Rabbit | >20000 mg/kg |
| Oral | | |
| LD50 | Guinea pig | 5300 mg/kg |
| | Rat | 8 g/kg |

*Estimates for product may be based on additional component data not shown.

Section 11- Toxicological Information continued

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|---|---|
| Skin corrosion/irritation | : Causes severe skin burns and eye damage. |
| Serious eye damage/eye irritation | : Causes serious eye damage. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | : Not a respiratory sensitizer. |
| Skin sensitization | : May cause and allergic skin reaction. |
| Germ cell mutagenicity | : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | : This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |
| IARC Mono graphs. Overall Evaluation of Carcinogenicity | |
| Triethanolamine (CAS 102-71-6) | |
| OSHA Specifically regulated Substances (29 CFR 1910.1001-1050) | |
| Not listed | |
| US National Toxicology Program (NTP) Report on Carcinogens | |
| Not available | |
| Reproductive toxicity | : This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity-single exposure | : May cause respiratory irritation |
| Specific target organ toxicity-repeated exposure | : Not classified |
| Aspiration hazard | : Not an aspiration hazard |
| Chronic effects | : May be harmful if absorbed through skin. Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans. |

Section 12 - Ecological Information

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| Ecotoxicity | : The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment. |
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| Product | Species | Test Results |
|--------------------------------|----------------|--|
| Synthetic Coolant S-122 | | |
| Aquatic | | |
| Crustacea | EC50 | Daphnia |
| Fish | LC50 | Fish |
| | | 6350.562 mg/l, 48 hours estimated |
| | | 6571.0845 mg/l, 96 hours estimated |
| Components | Species | Test Results |
| 2-aminoethanol (CAS 141-43-5) | | |
| Aquatic | | |
| Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) |
| | | 114-196 mg/l, 96 hours |
| Triethanolamine (CAS 102-71-6) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Ceriodaphnia dubia) |
| Fish | LC50 | Fathead minnow (Pimephales promelas) |
| | | 565.2 - 658.3 mg/l, 48 hours |
| | | 10610 - 13010 mg/l, 96 hours |

*Estimates for product may be based on additional component data not shown

Section 12 - Ecological Information Continued

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|--|---|
| Persistence and degradability | : No data is available on the degradability of this product. |
| Bioaccumulative potential | |
| Partition coefficient n-octanol/water (low Kow) | |
| 2-aminoethanol | -1.21 |
| Triethanolamine | -1 |
| Mobility in soil | : No data available |
| Other adverse effects | : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

Section 13 - Disposal Considerations

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| Disposal instructions | : Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | : Dispose in accordance with all applicable regulations. |
| Hazardous waste code | : The waste code should be assigned in discussion between the user, the producer and the waste disposal company |
| Waste from residues/ unused products | : Dispose of in accordance with local regulations. Empty containers or liner may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

Section – 14 Transportation Information

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| DOT | Not regulated as dangerous goods |
| TDG | Not regulated as dangerous goods |
| IMDG | Not regulated as dangerous goods |
| IATA | Not regulated as dangerous goods |
| Transport in bulk tankers According to Annex II of MARPOL 73/78 and the IBC Code | Not established |

Section 15 - Regulatory Information

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| US Federal regulations | This product is a "Hazardous chemical" as defined by the OSHA Hazard communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. |
| CERCLA Hazardous Substance List (40 CFR 302.4) | Not listed |
| SARA 304 Emergency release notification | Not regulated |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | Not listed |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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|---|------------------------|
| Hazard categories | Immediate Hazard – Yes |
| | Delayed Hazard – No |
| | Fire Hazard – No |
| | Pressure Hazard – No |
| | Reactivity Hazard – No |
| SARA 302 Extremely hazardous substance | Not listed |
| SARA 311/312 Hazardous Chemical | No |
| SARA 313 (TRI reporting) | Not regulated |
| Other federal regulations | |
| Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List | Not regulated |
| Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) | Not regulated |
| Safe Drinking Water Act (SDWA) | Not regulated |

US state regulations

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| US. California Controlled substances. CA Department of Justice (California Health and Safety Code Section 11100) | Not Listed |
| US. Massachusetts RTK- Substance list | 2-aminoethanol (CAS 141-43-5) Triethanolamine (CAS 102-71-6) |
| US. New Jersey Worker and Community Right-to-Know Act | 2-aminoethanol (CAS 141-43-5) Triethanolamine (CAS 102-71-6) |
| US. Pennsylvania Worker and Community Right-to-Know Act | 2-aminoethanol (CAS 141-43-5) Triethanolamine (CAS 102-71-6) |
| US. Rhode Island RTK | Not regulated |
| US. California Proposition 65 | 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. |

International Inventories

| Country(s) or region | Inventory name | On Inventory * |
|-----------------------------|--|----------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

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

A "No" Indicates that one or more components of the products are not listed or exempt from listing on the inventory administered by the governing country(s)

Section 16 - Other Information

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|----------------------|--|
| Issue date | 11/18/2015 |
| Revision date | 11/02/2016 |
| HMIS ratings | Health: 2 Flammability: 1 Physical Hazard: 0 Personal protection: D |
| NFPA ratings | Health: 2 Flammability: 1 Instability: 0 |

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