

Safety Data Sheet


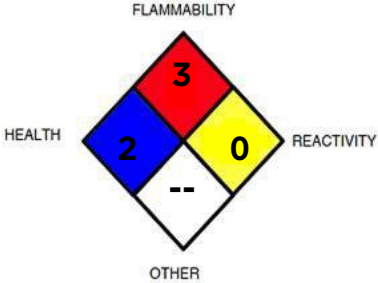
Section 1: Product & Company Identification

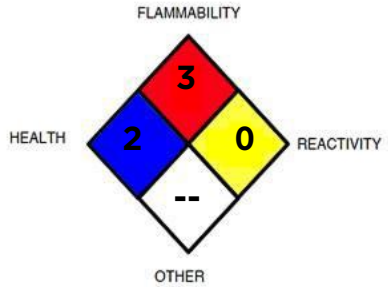
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| Product Name: | Safety-Solve Complete Counting Cocktail |
| Product #: | S-2827 |
| Synonyms: | |
| Supplier: | AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925 |
| Emergency Tele#: | ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585 |

Section 2: Composition / Information on Ingredients

| Component | CAS # | EC # | % Composition |
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| Light Aromatic Solvent Naptha | 64742-95-6 | 265-199-0 | 55.0 - 65.0 |
| Non-Ionic Surfactants | 127087-87-0 | 500-315-8 | 25.0 -35.0 |
| Glycol Ether DPM | 34590-94-8 | 252-104-2 | 5.0 - 15.0 |
| Scintillation Fluors | N/A | N/A | < 1.0 |

Section 3: Hazards Identification

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| Symbols |  |
| HMIS Classification | <p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">OTHER</p> |

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| NFPA Classification |  |
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Section 4: First Aid Measures

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| General Overview: | Consult a doctor and show this safety data sheet. |
| Inhalation: | Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor. |
| Skin: | Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor. |
| Eyes: | Flush with copious amounts of water for at least 15 minutes. Consult a doctor. |
| Ingestion: | Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor. |
| | See section 11 for more detailed information on health effects & symptoms. |

SECTION 5: Fire Fighting Measures

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| Flammability of the product: | Flammable. |
| Extinguishing Media: | Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. |
| Hazardous thermal (de)composition products: | Toxic vapors may be formed. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds. |
| Special Fire Fighting Procedures: | Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus. |
| Flash Point: | 37.8°C |

Section 6: Accidental Release Measures




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| Personal Precautions: | Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas. |
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| Environmental Precautions: | Do not let product enter drains. |
| Methods for Clean-up: | Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS. |

SECTION 7: Handling & Storage

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| Storage: | Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Storage class : Flammable liquids. |
| Handling: | Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin, and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure. |

SECTION 8: Exposure controls / Personal Protection

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| Respiratory Protection: |  <p>Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.</p> |
| Skin and Body: |   <p>Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.</p> <p>Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be</p> |

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| | selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Eyes: |  <p>Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p> |
| Ventilation/Engineering Measures: | Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station. |
| Hygiene: | Handle in accordance with good industrial hygiene and safety practice. Do not let product enter drains. |
| Control Parameters: | <p>Light Aromatic Solven Naphtha</p> <ul style="list-style-type: none"> • ACGIH TLV: TWA: 50 ppm • OSHA PEL: None established • NIOSH IDLH: None established <p>Glycol Ether (CAS 34590-94-8) (EINECS 252-104-2)</p> <ul style="list-style-type: none"> • TWA: 100 ppm <ul style="list-style-type: none"> ○ Basis: USA. ACGIH Threshold Limit Values (TLV) ○ Remarks: Central Nervous System impairment, Upper Respiratory Tract irritation, Eye irritation, Danger of cutaneous absorption • STEL: 150 ppm <ul style="list-style-type: none"> ○ Basis: USA. ACGIH Threshold Limit Values (TLV) ○ Remarks: Central Nervous System impairment, Upper Respiratory Tract irritation, Eye irritation, Danger of cutaneous absorption • TWA: 100 ppm, 600 mg/m³ <ul style="list-style-type: none"> ○ Basis: USA. ACGIH Threshold Limit Values (TLV) ○ Remarks: Potential for dermal absorption • STEL: 150 ppm, 900 mg/m³ <ul style="list-style-type: none"> ○ Basis: USA. NIOSH Recommended Exposure Limits ○ Remarks: Potential for dermal absorption |

SECTION 9: Physical and Chemical Properties

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| Appearance & Odor: | Liquid |
| Formula | N/A |

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| Molecular Wt. | N/A |
| Melting Pt. | No data available |
| Boiling Pt. | 156 - 170°C |
| Density: | |
| Vapor Pressure: | 2.7 mm Hg |
| Specific Gravity: | <1.0 |
| Evaporation Rate: | 0.37 |
| Vapor Density: | >4.2 |
| Solubility: | N/A |
| Flash Point: | 37.8°C |
| Autoignition Temp: | No data available |
| Upper/Lower Flammability or Explosive Limits: | Upper explosion limit: 6.0%(V) Lower explosion limit: 0.5%(V) |

SECTION 10: Stability and Reactivity

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| Stability: | Stable under recommended transport or storage conditions. |
| Hazardous decomposition products: | No data available |
| Materials to Avoid: | Nitric acid, sulfuric acid, strong oxidizing agents |
| Conditions to avoid: | Heat, flames, sparks, sources of ignition and incompatibles |

SECTION 11: Toxicological Information

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| RTECS#: | N/A |
| ACUTE Toxicity: | <p>Light Aromatic Solvent Naphtha</p> <ul style="list-style-type: none"> • LD50 Oral = >14,000 mg/kg (Rat) • LD50 Dermal = >2,000 mg/kg (Rabbit) • LD50 Inhalation = 6,000 - 10,000 mg/m³ (Rat) 4h • LD50 Intraperitoneal = 750 mg/kg (Mouse) <p>Non-Ionic Surfactants</p> <ul style="list-style-type: none"> • LD50 Oral = 960 - 3,980 mg/kg (Rat) • LD50 Dermal = 2,000 - 2,991 mg/kg (Rabbit) <p>Glycol Ether DPM</p> <ul style="list-style-type: none"> • LD50 Oral = 5,152 mg/kg (Rat) |
| CHRONIC Toxicity: | There are no known carcinogenic chemicals in this product. |
| Chronic Exposure: Carcinogen: Mutagen: | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. |

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| Teratogen: Reproductive: | <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p> |
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SECTION 12: Ecological Information

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| Ecotoxicity: | <p>Light Aromatic Solvent Naphtha</p> <ul style="list-style-type: none"> • Toxicity to fish LC50: Oncorhynchus mykiss - 9.2 mg/L (96 h) • Toxicity to Daphnia LC50: 1.6% Soluble fraction (D. magna) <p>Glycol Ether DPM</p> <ul style="list-style-type: none"> • Toxicity to fish LC50: Pimephales promelas (fathead minnow) - >10,000 mg/L (96 h) • Toxicity to Daphnia EC50 - Daphnia magna (Water flea) - 1,919 mg/L (48 h) <p>Non-Ionic Surfactants</p> <ul style="list-style-type: none"> • Toxicity to fish LC50: Pimephales promelas (fathead minnow) - 3.8 - 6.2 mg/L (96 h) • Toxicity to bacteria IC50: Bacteria - >1,000 mg/L (16 h) |
| Mobility: | <p>Non-Ionic Surfactants</p> <ul style="list-style-type: none"> • Log Pow: 2.1 - 3.4 |
| Persistence and degradability: | <p>No data available</p> |
| Bioaccumulative potential: | <p>No data available</p> |
| Other adverse effects: | <p>No data available</p> |
| Corrosivity Characteristic: | <p>No data available</p> |
| General Notes: | <p>To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.</p> |

SECTION 13: Disposal Considerations

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| Residue Waste or Unused product: | <p>Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management</p> |
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| | options. State and local disposal regulations may differ from federal disposal regulations. |
| Contaminated Packaging: | Dispose of container and unused contents in accordance with federal, state and local requirements. |

SECTION 14: Transportation Information

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| UN ID#: | 1268 |
| ADR / RID (LAND): | UN#: 1268 Proper Shipping Name: Flammable liquid, N.O.S. (Light Aromatic Solvent Naphtha) Hazard Class: 3 Packaging Group: III |
| DOT regulations: | UN#: 1268 Proper Shipping Name: Flammable liquid, N.O.S. (Light Aromatic Solvent Naphtha) Hazard Class: 3 Packaging Group: III |
| IMDG/IMO (SEA): | UN#: 1268 Proper Shipping Name: Flammable liquid, N.O.S. (Light Aromatic Solvent Naphtha) Hazard Class: 3 Packaging Group: III |
| IATA/DGR (AIR): | UN#: 1268 Proper Shipping Name: Flammable liquid, N.O.S. (Light Aromatic Solvent Naphtha) Hazard Class: 3 Packaging Group: III |
| Special Provisions: | N/A |

SECTION 15: Regulatory Information

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| Health Phrases: | Danger! H226 Flammable liquid and vapour H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H318 Causes serious eye damage H335 May cause respiratory irritation H340 May cause genetic defects H350 May causing cancer H411 Toxic to aquatic life with long lasting effects |
| Risk Phrases: | P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. |

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| | <p>P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> |
| Safety Phrases: | <p>P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 Do NOT induce vomiting. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P321 Specific treatment (see. on this label). P330 Rinse mouth. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction P391 Collect spillage. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant.</p> |
| EU Regulations: | N/A |
| US Regulations: | <p>TSCA: Not listed California Proposition 65: No products were found</p> <p>Illinois State Right to Know: Listed Massachusetts State Right to Know: Listed New Jersey State Right to Know: Listed Pennsylvania State Right to Know: Listed Rhode Island State Right to Know: Listed</p> |

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| <p>U.S. Federal Regulations:</p> | <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard, Chronic Health Hazard, Fire Hazard</p> <p>SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean Air Act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>OSHA: Flammable liquids (Cat. 3), Acute toxicity - oral (Cat. 4), Aspiration hazard (Cat. 1), Skin corrosion/irritation (Cat. 2), Serious eye damage (Cat. 1), Specific target organ toxicity - single exposure - respiratory tract irritation (Cat. 3), Germ cell mutagenicity (Cat. 1B), Carcinogenicity (Cat. 1B), Hazardous to the aquatic environment - long term hazard (Cat. 2)</p> |
| <p>WHMIS (Canada):</p> | <p>N/A</p> |

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*