

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION						
<b>NFPA Rating:</b> Health-2; Flammability-4; Reactivity-0; Special-0 <b>Manufacturer's Name:</b> BRODY CHEMICAL <b>Address:</b> 4825 S. 6200 W. SLC, UT. 84118			<b>HMS Rating:</b> Health-2; Flammability-4; Reactivity-0; Personal Protection-B <b>DOT Hazard Classification:</b> ORM-D <b>Identity</b> (trade name as used on label): ORANGE SOLVENT AEROSOL			
<b>Date Prepared:</b> 3-14-02 <b>Prepared By:</b> RW		<b>MSDS Number:</b> BA191 <b>Revision:</b> 13				
<b>Information Calls:</b> (801) 963-2436 <b>EMERGENCY RESPONSE NUMBER:</b> 1-800-424-9300			NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
<b>COMPONENTS-CHEMICAL NAMES AND COMMON NAMES</b> (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	Approx. % wt.	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
D-LIMONENE		5989-27-5	80-100	N/D	N/D	D
PROPANE		68476-85-7	10-20	N/D	1000	D
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
<b>Boiling Point:</b> N/A <b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): 104@130F <b>Vapor Density (Air = 1):</b> N/D <b>Solubility in Water:</b> SLIGHT <b>Appearance and Odor:</b> AEROSOL SPRAY WITH CITRUS ODOR.			<b>Specific Gravity (H2O=1):</b> > 1 <b>Vapor Pressure (Non-Aerosols)(mm Hg and Temperature):</b> N/D <b>Evaporation Rate (ETHER = 1):</b> < 1 <b>Water Reactive:</b> NO			
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) <b>FLAMMABLE</b>		<b>Auto Ignition Temperature</b> N/A	<b>Flammability Limits in Air by % in Volume:</b> % LEL: 2.2      % UEL: 9.5			
<b>FLASH POINT AND METHOD USED (non-aerosols):</b> 0F. <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD-UP.		<b>EXTINGUISHER MEDIA:</b> CARBON DIOXIDE, WATER SPRAY, FOAM, DRY CHEMICAL.				
<b>Unusual Fire &amp; Explosion Hazards:</b> FIREFIGHTERS SHOULD WEAR NIOSH APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.						
SECTION 4 - REACTIVITY HAZARD DATA						
<b>STABILITY</b> <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE <b>Incompatibility (Mat. to avoid):</b> STRONG OXIDIZERS.		<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT   OCCUR <b>Conditions to Avoid:</b> HEAT, SPARKS, AND FLAMES. DROPPING MAY CAUSE THE CONTAINER TO BURST.				
<b>Hazardous Decomposition Products:</b> CARBON MONOXIDE, CARBON DIOXIDE, SMOKE.						
SECTION 5 - HEALTH HAZARD DATA						
<b>PRIMARY ROUTES OF ENTRY:</b> <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
<b>ACUTE EFFECTS:</b> <b>Inhalation:</b> MAY CAUSE IRRITATION TO RESPIRATORY TRACT. <b>Eye Contact:</b> MAY CAUSE MODERATE IRRITATION. <b>Skin Contact:</b> MAY CAUSE MILD IRRITATION. <b>Ingestion:</b> CAN CAUSE DIZZINESS, FAINTNESS, HEADACHE, AND INCOORDINATION. <b>CHRONIC EFFECTS:</b> NONE KNOWN. <b>Medical Conditions Generally Aggravated by Exposure:</b>						
EMERGENCY FIRST AID PROCEDURES						
<b>Eye Contact:</b> IMEEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. <b>Skin Contact:</b> IMMEDIATELY RINSE OFF WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. <b>Inhalation:</b> REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, GET MEDICAL ATTENTION. <b>Ingestion:</b> GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING UNLESS DIRECTED BY MEDICAL PERSONNEL. RINSE MOUTH WITH WATER AND GIVE ANOTHER CUPFUL TO DRINK.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
<b>Respiratory Protection (specify type):</b> NONE REQUIRED IF GOOD VENTILATION IS MAINTAINED. <b>Protective Gloves:</b> CHEMICAL RESISTANT. <b>Eye Protection:</b> SAFETY GLASSES. <b>Ventilation Requirements:</b> GENERAL VENTILATION IS ADEQUATE UNDER NORMAL CONDITIONS. <b>Other Protective Clothing &amp; Equipment:</b> WEAR IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT. <b>Hygienic Work Practices:</b> WASH HANDS THOROUGHLY AFTER USING THIS PRODUCT.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> REMOVE ALL SOURCES OF IGNITION AND VENTILATE AREA. SOAK UP SPILL WITH AN INERT ABSORBENT AND PLACE INTO A DESIGNATED DISPOSAL CONTAINER. <b>Waste Disposal Methods:</b> DO NOT PUNCTURE OR INCINERATE CONTAINERS. WHEN CONTENTS ARE DEPLETED CONTINUE TO PRESS BUTTON UNTILL ALL GAS IS EXPELLED. DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. <b>Precautions To Be Taken In Handling &amp; Storage:</b> AVOID BREATHING VAPORS. KEEP AWAY FROM HEAT, SPARKS AND FLAME. USE WITH ADEQUATE VENTILATION. <b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN. FOLLOW DIRECTIONS ON LABEL CAREFULLY.						

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only