

**Material Safety Data Sheet
(112 SOLVENT)**

JMN Specialties, Inc.

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ISO 9001 Registered

HMIS HEALTH:.....2
HMIS FLAMMABILITY:1
HMIS REACTIVITY:.....0
PERSONAL PROTECTION:K

EMERGENCY NUMBER:800-255-3924

SECTION 1 – IDENTIFICATION OF CHEMICAL PRODUCT

PRODUCT NAME:..... 112 SOLVENT
EFFECTIVE DATE:..... September 6, 2007
CHEMICAL FAMILY: Halogenated Hydrocarbon Blend
FORMULA: C₂HC₁₃
CAS NUMBER: Blend

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
Trichloroethene	100	79-01-6	OSHA PEL: 100 ppm TWA, 200 ppm Ceiling, 300 ppm / 5min / 2hr Max. ACGIH TLV: 50 ppm TWA 100 ppm STEL

The criteria for listing components in the composition section are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 14 for applicable states right to know and other regulatory information.

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE / ODOR: Clear Liquid / Ether Like Odor

SHORT TERM EXPOSURE: **GENERAL:** Solvent vapors may be irritating to skin and eyes.
INHALATION: High concentrations of vapor may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, possibly with chest pain and coughing. **NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. **EYES:** May cause mild to severe irritation experienced as discomfort or pain, excess blinking and tear production, possibly with marked redness and swelling of the conjunctiva. **SKIN:** Brief contact may cause slight irritation with itching and local redness. Prolonged contact may cause more severe irritation, with discomfort or pain. **SWALLOWING:** May cause headache, dizziness, nausea, vomiting, diarrhea, coma, and death.

OSHA REGULATED: No

LISTED CARCINOGEN: NTP: No IARC MONOGRAPHS: No

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POTENTIAL HEALTH EFFECTS

INHALATION: Irritant Narcotic

INGESTION: Irritant

SKIN (DERMAL): Irritant

OVER EXPOSURE EFFECTS: **Inhalation:** Toxic and harmful if inhaled. Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Vapors expected to be slightly irritating. **Eye Contact:** May cause temporary discomfort or irritation to the eye. **Skin Contact:** May be slightly irritating to the skin. Prolonged or repeated skin contact can cause defatting and drying of the skin which may result in a burning sensation and a dried, cracked appearance. **Ingestion:** Liquid can directly enter the lungs (aspiration) when swallowed or vomited. Serious lung damage and possibly fatal chemical pneumonia (chemical pneumonitis) can develop if this occurs.

SECTION 4 – FIRST AID MEASURES

FIRST AID:

SKIN CONTACT: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately. **EYE CONTACT:** Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately. **INGESTION:** Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately. **INHALATION:** Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.

NOTE TO PHYSICIAN: Only administer adrenaline (epinephrine) after careful consideration following Trichloroethylene overexposure. Increased sensitivity of the heart to adrenaline may be caused by overexposure to Trichloroethylene.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT:..... None

EXTINGUISHING MEDIA: Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO₂).

DECOMPOSITION

PRODUCTS:..... Hydrogen chloride and possible traces of phosgene.

LOWER FLAME LIMIT:..... 7%

HIGHER FLAME LIMIT:..... 54%

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UNUSUAL FIRE AND

EXPLOSION HAZARDS:..... Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame or high intensity source of heat. This can occur at concentrations ranging between 7-54% by volume.

FIRE FIGHTING

EQUIPMENT:..... Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

CHEMTEL EMERGENCY

NUMBER (24 Hour): 1-800-255-3924

SPILL: Unprotected personnel should move upwind of spill. Dike area to contain spill. Wear protective clothing in area of spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbents, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors have been removed, thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

RCRA STATUS: 100 lbs.

SECTION 7 – HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND PROMPT REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.

HANDLING AND STORAGE: .. Store in a cool place away from ignition sources. Do not store or stack aluminum in contact with Trichloroethene to prevent possible solvent decomposition; (stacking corrosion). Store away from oxidizers or materials bearing a yellow "DOT" label.

PRECAUTIONARY

MEASURES: This material or its vapors when in contact with flames, hot glowing surfaces, or electric arcs can decompose to form hydrogen chloride and possible traces of phosgene. Avoid contamination of water supplies. Use with adequate ventilation. Do not breathe vapors. Do not breathe spray mist. Respiratory protection as per OSHA 29 CFR 1910. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM-D-4276.

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SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment.

EYE PROTECTION:..... Use chemical splash goggles and face shield if splashing is likely. Chemical safety goggles meeting the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes. Wear safety glasses meeting the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 where no contact with the eye is anticipated.

RESPIRATORY

PROTECTION:..... Where vapor concentration exceeds or is likely to exceed 50 ppm, a NIOSH/MSHA approved organic vapor type respirator is acceptable. A NIOSH/MSHA approved self-contained breathing apparatus or airline respirator, with full-face piece, is required for vapor concentrations above 1,000 ppm and for spills and/or emergencies. Follow any applicable respirator use standards or regulations.

Use NIOSH / MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH / MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

PROTECTIVE GLOVES:..... Vitron, Silver Shield.

VENTILATION: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

MECHANICAL EXHAUST: Desired in closed places

LOCAL EXHAUST: Recommended

VENTILATION NOTES: Provide natural or mechanical ventilation to control exposure levels below Airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

THRESHOLD LIMIT VALUE: . OSHA PEL: 100 ppm TWA, 200 ppm Ceiling, 300 ppm / 5min / 2hr Max. ACGIH TLV: 50 ppm TWA 100 ppm STEL; listed as A5, not suspected as a human carcinogen.

PROTECTIVE EQUIPMENT:... HMIS PERSONAL PROTECTION: K: Airline Hood or Mask, Gloves, Full Protective Suit, Boots

The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / ODOR: Clear Liquid / Ether Like Odor
BOILING POINT: ~ 189°F
FREEZING POINT: < 0°F
VAPOR PRESSURE:..... 57.8 @ 20°C (68°F)
VAPOR DENSITY (AIR=1): 4.5
SPECIFIC GRAVITY: 1.456
pH: NA
SOLUBILITY IN WATER: Dispersible

SECTION 10 – STABILITY AND REACTIVITY

STABILITY:..... Stable
HAZARDOUS
POLYMERIZATION:..... Will Not Occur
POLYMERIZATION AVOID:... None
INCOMPATIBILITY:..... Avoid mixing with caustic soda, caustic potash, or oxidizing materials.
Shock sensitive compounds may be formed.
CONDITIONS TO AVOID:..... Heat, Sparks, Open Flames, Electrical Arcs.

SECTION 11 – TOXICOLOGICAL INFORMATION

EYE EFFECTS:

The eye irritation hazard is based on data from information supplied by raw material(s) supplier(s).

SKIN EFFECTS:

The skin irritation hazard is based on data from information supplied by raw material(s) supplier(s).

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on data from information supplied by raw material(s) supplier(s).

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on data from information supplied by raw material(s) supplier(s).

Toxicological Data: Trichloroethene: Oral rat LD50: 5650 mg/kg; investigated as a tumorigen, mutagen, reproductive effector. **Reproductive Toxicity:** This material has been linked to mutagenic effects in humans.

SECTION 12 – ECOLOGICAL INFORMATION

Data from laboratory studies and from scientific literature is noted below if available.

Environmental Fate: When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released to water, this material is expected to quickly evaporate. This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

Environmental Toxicity: The LC50/96-hour values for fish are between 10 and 100 mg/l. This material is expected to be slightly toxic to aquatic life.

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SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. 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 options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14- TRANSPORTATION INFORMATION

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate regulations to properly classify your shipment for transportation.

PROPER SHIPPING NAME:..... Trichloroethene, 6.1, UN1710, PG III. Guide # 160.

REPORTABLE QUANTITY:..... 100 lbs.

HAZARD CLASS AND LABEL: 6.1

UN NUMBER: 1710

NA NUMBER: None

PACKAGING SIZE:..... 5 Gallon pail, 55 gallon Drum & Bulk

SECTION 15 - REGULATORY INFORMATION

SARA 311 CATEGORIES:

EPA ACUTE:..... Yes

EPA CHRONIC: Yes

EPA IGNITABILITY: No

EPA REACTIVITY: No

EPA SUDDEN RELEASE

OF PRESSURE: No

CERCLA RQ VALUE:..... 100 lbs.

SARA TPQ: None

SARA RQ:..... 100 lbs.

EPA HAZARD WASTE #: D226 - Characteristics of hazardous waste.

CLEAN AIR: CAA Section 111

CLEAN WATER:..... CWA Sections 304, 307, 311

SARA SECTION 313:..... Yes - Trichloroethene

NFPA HEALTH: 2

NFPA FLAMMABILITY:..... 1

NFPA REACTIVITY: 0

DEA Chemical Trafficking Act:.. No

TSCA STATUS: All ingredients in this product are on the TSCA Inventory List.

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SECTION 16 - ADDITIONAL INFORMATION

FOOT NOTES: ND - No Data Available NA - Not Applicable < = Less Than > = Greater Than

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Company Health and Risk Assessment Unit, PO Box 1519, Gretna, LA 70054-1519.

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

DISCLAIMER:

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