

SAFETY DATA SHEET



Revision Date: 04/01/2015
Revision Number: 001.0

1. PRODUCT AND COMPANY INFORMATION

Product Name:	1001 RUST PENETRANT	Item number(s):	14-01
Product Type:	Industrial solvent	Region(s):	U.S.A
Restriction of Use:	None Identified	Telephone:	949 646-9035
Company Address:	Armite Laboratories Inc. 1560 Superior Ave. Ste. A-4 Costa Mesa, CA 92627	Product Emergency:	CHEM-TEL 800-225-3924

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: Colorless. Liquid. Hydrocarbon.

Health Hazards: Harmful: may cause lung damage if swallowed.

Safety Hazards: Combustible liquid. In use, may form flammable/explosive vapor-air mixture. Vapors are heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Electrostatic charges may be generated during pumping. Electrostatic discharges may cause fire.

Signal Word	Hazard Class	Hazard Category	Pictogram(s)
WARNING	SKIN IRRITANT	3	

Hazard Statements

Causes skin irritation.
Harmful if swallowed.

Precautionary Statements

Prevention:
Use personal protective equipment as required.
Keep container tightly closed.
May cause respiratory irritation.

Response:

IF SWALLOWED do NOT induce vomiting. May cause lung damage. Do not induce vomiting. Call a poison center/doctor if you feel unwell. IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to remove, and continue to rinse. IF ON SKIN: Wash with plenty of soap & water. Seek medical attention if irritation persists. Wash hands thoroughly after handling.

Signs & Symptoms: If material enters lungs, signs & symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. Defatting dermatitis signs and symptoms may include a burning sensation and/or dried/cracked appearance. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. May aggravate pre-existing skin conditions.

Storage Keep out of reach of children. Combustible Liquid. Storage Temp: Ambient.

Disposal: Follow Federal, State & Local rules & regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS Number	Percentage*
Solvent Naphtha (Petrolatum) Medium Aliphatic	64742-88-7	100.0%W

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4. FIRST AID MEASURES

General Information: Not expected to be a health hazard when used under normal conditions.

Ingestion: If swallowed: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration seek medical attention. If any of the following occur within 6 hrs, transport to medical facility: fever greater than 101°F, shortness of breath, chest congestion or continued coughing or wheezing.

Skin contact: Remove contaminated clothing. Flush exposed area with water and follow by washing with soap and water if available.

Eye contact: Flush eye with copious quantities of water. If persistent irritation occurs, seek medical attention.

Inhalation: Remove to fresh air. If rapid recovery does not occur, transport for medical attention.

Advise to Physician: Potential for chemical pneumonitis –call a doctor or poison control center for guidance.

5. FIRE FIGHTING MEASURES

Flash Point: Typical 61-66°C/142-151°F (ASTM D-93 / PMCC)

Auto Ignition Temperature: 235 -315°C / 142-151°F (ASTM E-659)

Explosion / Flammability limits in air: 0.7 -6% (V)

Extinguishing media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires. Do not discharge extinguishing waters into the aquatic environment.

Unsuitable Extinguishing Media: DO NOT use water in jet.

Special firefighting equipment: Wear full protective clothing and self-contained breathing apparatus.

Specific Hazards: Carbon monoxide may be involved if incomplete combustion occurs. Will float & may reignite on surface water. The vapor is heavier than air and spreads along the ground and distant ignition is possible.

Additional Advice: Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Protective measures: Avoid contact with spilled or released material. Immediately remove all contaminated clothing. See #8 of this SDS for PPE guidance. See #13 of this SDS for guidance on disposal of spilled material. Shut off leaks, if possible without personal risk. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product & firefighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditched or waterways by using sand or earth or other appropriate barrier. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding or grounding (earthing) all equipment. Monitor area with combustible gas indicator.

Clean-up method: For small spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for recovery or safe disposal. Allow residue to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of properly.

For large spills(>1 drum) transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residue with water. Retain as contaminated waste. Allow residues to evaporate or soak up with appropriate absorbent material and dispose of safely.

Additional Advice: See Chapter 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. U.S. regulation may require reporting releases of this material to the environment which exceeds the reportable quantity (refer to chapter 15) to the National Release Center at (800) 424-8802. Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such spills into surface waters must be reported to the National Response Center. This material is covered by EPA's Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore, releases to the environment may not be reportable under CERCLA.

7. HANDLING AND STORAGE

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General Precautions: Avoid breathing vapors or contact with material. Use only in well ventilated areas. Wash thoroughly after handling. See #8 of this SDS for guidance of personal protective equipment selection. Use this data sheet as input for a risk assessment of local circumstances to help determine appropriate controls.

Handling: Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Avoid contact with eyes, skin and clothing. Electrostatic charges may be generated during pumping –such discharge may cause fire. Ensure electrical continuity by bonding & grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic charge. DO NOT use compressed air for filling, discharge or handling operations. Avoid splash filling.

Recommended Materials: For containers, or container lining use mild steel, stainless steel.

Unsuitable Materials: Avoid prolonged contact with natural, butyl or nitrile rubbers.

Container Advice: Containers, even those that are emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

Storage: Bulk storage must be stored in a diked area. Storage Temperature: Ambient.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

In the absence of occupational exposure standards for this product, it is recommended that the following are adopted.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Stoddard Solvent	100ppm TWA	(Z1 PEL) 500ppm 2900 mg/m3 (Z1A TWA) 100ppm 2900 mg/m3		

Personal Protective Equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific condition and meeting relevant legislation. Where air filtering respirators are suitable, select combination mask & filter. Filter suitable for organic gases and vapors [boiling point >65°C (149°F) meeting EN141387. Where air filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

Hand Protection: Longer term protection: Nitrile rubber gloves. Incidental contact/Splash protection: PVC or neoprene rubber gloves. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, wash and dry hands thoroughly. Application of non-perfumed moisturizer is recommended.

Eye Protection: Chemical splash goggles (chemical monogoggles).

Protective clothing: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

Monitoring method: Monitoring of the concentration of substances in the breathing zone of workers may be required to confirm compliance with OEL and adequacy of exposure controls.

Environmental exposure controls: Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapor.

9. PHYSICAL AND CHEMICAL PROPERTIES

The physical and chemical property data are typical values and do not constitute a specification.

Appearance: Colorless Liquid

VOC content: 100%

Odor: Hydrocarbon

Odor threshold: Not available

Evaporation rate: (nBuAc=1): 0.04 (ASTM D3539)

Density: Typical 0.780g/cm³ at 15°C / 59°F (ASTM D-4052)

Specific gravity: 0.78 – 0.81

Vapor pressure: Typical 30-93 Pa at 0°C / 32°F

Auto-ignition temp: 235-315° / 455-599°F (ASTM E-659)

Boiling point: Typical 179-213.9°C / 354-417.0°F

Flash point: Typical 61-66°C/142-151°F(ASTM D93/PMCC)

pH: Not applicable

Pour point: <-25°C / -13°F

Viscosity: Not available

Solubility in water: Insoluble

Partition coefficient: Not determined

Flammable/Explosive limits in air: 0.7- 6% (V)

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10. STABILITY AD REACTIVITY

Stability: Stable at normal conditions of use.

Materials to avoid: Strong oxidizing agents.

Conditions to avoid: Heat, spark, open flames and other ignition sources.

Hazardous decomposition products: Thermal decomposition if highly dependent on conditions. A complex mixture of airborne solids, liquids & gases, including carbon monoxide, carbon dioxide and other organic compounds will be involved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

Information given is based on product testing, and/or similar products, and/or components.

Acute oral toxicity: Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Skin contact: May cause moderate skin irritation (but insufficient to classify). Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Serious Eye damage/irritation: Not irritating to the eyes.

Repeated dose toxicity: Kidney: caused kidney effects in male rats which are not considered relevant to humans.

Hazardous Component(s)	LD50s and LC50s		Immediate and Delayed Effects
Solvent Naphtha	Low Toxicity: Oral LD50 >2000 mg/kg, Rat Low Toxicity: Dermal LD50 >2000 mg/kg Rat Low toxicity Inhalation: LC50 greater than near-saturated vapor concentration. / 1 hr Rat		
Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Stoddard Solvent	None	None	None

12. ECOLOGICAL INFORMATION

Acute Toxicity (Fish, Aquatic Invertebrates, Algae): Practically non toxic: LL/EL/IL50 >100mg/l

Mobility: Floats on water. Absorbs to soil and has low mobility.

Persistence/degradability: Readily biodegradable. Oxidizes rapidly by photo-chemical reaction in air.

Bioaccumulation: Has the potential to bioaccumulate.

Other Adverse Effects: Data not available.

13. DISPOSAL CONSIDERATIONS

Material disposal: Recover & recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains, or water courses. Waste water should not be allowed to contaminate soil or water.

Container Disposal: Drain container thoroughly. After draining, vent in a safe place away from spark and fire. Residue may cause explosion hazard if heated above the flash point. Do not puncture, cut or weld unclean drums. Send to drum recovery or metal reclaimer.

Local Legislation: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be in compliance.

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14. TRANSPORTATION INFORMATION

US Dept of Transportation (49 CFR)

Not regulated in amounts under 119 gallon capacity or less.
In amounts **over 119 gallon capacity** material ships as the following:

Proper shipping name: UN 1268

Hazard class or division: Petroleum Distillates, n.o.s.

Identification number: Combustible liquid

Packing group: III Contains OIL Emergency Response Guide: 128

This material is an "OIL" under 49CFR part 130 when transported in a container of 3500 gallon capacity or greater.

ICSO/IATA (Country variations may apply) This material is not classified as dangerous under IATA

IMO/IMDG material is not classified as dangerous under IMDG

15. REGULATORY INFORMATION

Regulatory Information

DSL	Listed
INV (CN)	Listed
TSCA	Listed
EINECS	Listed 265-191-7
KECI (KR)	Listed KE-31664
PICCS (PH)	Listed
AICS	Listed

SARA Section 311/312: Fire Hazard

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

HMIS Rating (Health, Fire, Reactivity): 1, 2, 0

NFPA Rating (Health, Fire, Reactivity): 1, 2, 0

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