



SAFETY DATA SHEET

113 VarniClean®

Section 1. Identification

- GHS product identifier** : 113 VarniClean®
- Product type** : Liquid
- Identified uses** : Petroleum base varnish remover
- Supplier's details** : Schaeffer Mfg. Company
102 Barton Street
Saint Louis, Missouri 63104
Tel: 314-865-4100
Fax: 314-865-4107
Toll Free: 1-800-325-9962
E-Mail: safety@schaefferoil.com
Web: www.schaefferoil.com

Emergency Phone Number : +1 314 865-4105 (24-hour response number)
(with hours of operation)

Section 2. Hazards identification

- OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Classification of the substance or mixture** : Skin Corrosion/Irritation – Category 2
Serious Eye Damage/Eye Irritation – Category 2A
Flammable liquids – Category 4

GHS label elements

Hazard pictograms



Signal word

Hazard statements

- : Warning
Combustible liquid.
Causes skin irritation.
Causes serious eye irritation

Precautionary statements

Section 2. Hazards identification

- Prevention** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling
- Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuer rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. IN CASE OF FIRE: Use CO₂, dry chemical or foam for extinction. Water can be used to cool and protect exposed material.
- Storage** : Store in well-ventilated place. Keep cool.
- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Hazards not otherwise classified** : Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient Name	%	CAS number
2-Ethylhexanol	10-20	104-76-7

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Wash skin thoroughly with soap and water. Get medical attention if symptoms occur. Remove contaminated clothing and wash before re-use.
- Ingestion** : Wash out mouth with water. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled.
- Skin contact** : Causes skin irritation.
- Ingestion** : No data available.

Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : CO₂, dry chemical or foam. Water can be used to cool and protect exposed material.

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical : Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : No specific data.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep unauthorized personnel away. See Section 8 for Personal Protective Equipment.

Section 6. Accidental release measures

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to all applicable Federal, State, Provincial and local authorities and/or the United States National Response Center at (800) 424-8802 as appropriate or required.

Methods and materials for containment and clean up

Small spill : Eliminate all ignition sources if safe to do so. Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Vapors are heavier than air and will tend to accumulate in low areas. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, respiratory discomfort or nausea. Carefully evaluate processes using this product at elevated temperatures to ensure safe operating conditions. Electrostatic buildup may occur when pouring or transferring this product from its container. The spark produced may be sufficient to ignite vapors of flammable liquids. Always transfer product by means which avoid static buildup. Avoid pouring product directly from its container into combustible or flammable solvent. Static ignition hazard can result from handling and use. Electrically bond and ground all containers and equipment before transfer or use of material. Do not breathe thermal decomposition products.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Observe good industrial hygiene practices. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Launder contaminated clothing before reuse.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store near potential sources of ignition. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None of the components have assigned exposure limits.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.

Skin protection

Hand protection : Use nitrile or oil resistant gloves.

Body protection : Personal protective clothing such as gloves, aprons, boots and complete facial protection should be selected based on the task being performed and the risks involved. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection : If a risk assessment indicates that respiratory protection is required, use a properly fitted, air-purifying or supplied air respirator that complies with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid. [Clear.]
Color	: Dark.
Odor	: Mild.
Odor threshold	: Not available.
pH	: Not available.
Melting point/Dropping point	: Not available.
Boiling pint	: >200°C (>392°F)
Flash point	: 86°C (187°F) [Pensky-Martens Closed Cup.]
Evaporation rate	: < 1 n-butyl acetate = 1.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: >1 [Air = 1]
Relative density	: 0.927 60.1°F (15.6°C)
Solubility	: Negligible in water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (100°C): 32 cSt Kinematic (40°C): 280 cSt
Volatility	: Not available.
VOC content	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous	: Will not occur.
Conditions to avoid	: Excessive heat. Contact with acids. Strong oxidizing agents. Strong caustic agents. Heat, sparks, flames.
Incompatible materials	: Oxidizing agents. Strong acids. Aluminum. Lead and lead alloys. Reactive metals, sodium or calcium hypochlorite. Avoid heat or dehydrating agents. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds.
Hazardous decomposition products	: Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

There is no data available.

Sensitization

2-Ethylhexanol is not a skin sensitizer.

Carcinogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
VarniClean®	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
2-Ethylhexanol	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
2-Ethylhexanol	Repeated overexposure may result in liver and kidney damage. Target Organ(s): Blood, Liver, Spleen, Kidney

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : Harmful if inhaled.
Skin contact : Causes skin irritation.
Ingestion : No data available

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Causes serious eye irritation.
Inhalation : High concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness and stupor.
Skin contact : Prolonged or repeated skin contact may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.
Ingestion : Ingestion can cause central nervous system effects such as headache, dizziness, drowsiness, and generalized weakness. Material can be aspirated into the lungs during the act of swallowing or vomiting.

Section 11. Toxicological information

Potential chronic health effects

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-Ethylhexanol	LC50 28.2 mg/l	Fathead Minnow	4 days
	LC50 17.1 mg/l	Golden Orfe	4 days
	NOEC 14 mg/l	Golden Orfe	4 days
	EC50 39 mg/l	Daphnia magna	2 days
	ED50 16.6 mg/l	Scenedesmus quadricauda	3 days
	ED50 540 mg/l	Pseudomonas putida	0.1 days
	ED50 >100 mg/l	Sludge	0.5 days

Persistence and degradability

Product/ingredient name	Test	%	Duration	Result
2-Ethylhexanol	OECD TG 302 B	95	5 days	Readily biodegradable
	OECD TG 301 C	100	14 days	Readily biodegradable

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-Ethylhexanol	-	25.35 (calculated)	-

Mobility in soil

Soil/water partition coefficient (K_{oc}) : 2.9 (measured) 2-Ethylhexanol

Mobility : soil – 1.42

Other adverse effects : No data available.

Section 13. Disposal considerations

Disposal methods : Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

Section 14. Transport information

- DOT Classification (bulk only)** : NA1993, Combustible liquid, n.o.s.,(2-Ethylhexanol, 2-Ethyl-4-methylpnetanol),3,III.
- IMDG** : Not regulated.
- IATA/ICAO** : Not regulated.
- AERG** : Not applicable
- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

Section 15. Regulatory information

- U.S. Federal regulation** : **TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D):** None present or none present in regulated quantities.
United States inventory (TSCA 8b): All components are listed or exempted.

SARA

- Hazard categories** : Fire Hazard Immediate (Acute) Health Hazards

- SARA 302** : Extremely Hazardous Substance.

- SARA 304** : Emergency Release Notification

- SARA 311/31** : Hazardous Chemical.

- SARA 313** : This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA). For additional information please contact manufacturer.

State regulations

California Prop. 65

WARNING: This product contains 125 ppm propylene oxide, 12ppb ethylene oxide and 1 ppb methanol which are chemicals known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 2 **Flammability:** 1 **Physical hazards:** 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health: 2 **Flammability:** 1 **Instability:** 0

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