

Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

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1. PRODUCT IDENTIFICATION

Trade Name (as labeled):	Orange Solvent
Chemical Name/Classification:	Mixture
Product Identifier (Part/Item Number):	21001, 21002
U.N. Number:	None
U.N. Dangerous Goods Classification:	None
Recommended Use:	Instrument and surface cleaning
Restrictions on Use:	For Professional Use Only
Manufacturer/Supplier Name:	Sultan Healthcare
Manufacturer/Supplier Address:	411 Hackensack Avenue, 9 th Floor Hackensack, NJ
Manufacturer/Supplier Telephone Number:	1-201-871-1232 or 800-637-8582 (Product Information)
Emergency Contact Telephone Number:	800-535-5053 (INFOTRAC) 1-352-323-3500 (Outside the United States – Call Collect)
Email address:	customer.service@sultanhc.com

2. HAZARD(S) IDENTIFICATION

EU Classification (1999/45/EC as amended): Harmful (Xn) R65

EU Labeling:

 Harmful	Contains white mineral oil (petroleum) R65 Harmful: may cause lung damage if swallowed. S24 Avoid contact with skin. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
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US Hazard Classification: Hazardous

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification	WT %
Mineral Oil	8042-47-5 / 232-455-8	White mineral oil (petroleum)	Xn R65	<90
Orange Oil Terpenes	8008-57-9 / Not assigned	Oil of Orange	Not classified as hazardous	<10





Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.

4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Flush eyes with large quantities of water several minutes, holding the eyelids apart. Get medical attention if irritation persists.
Skin	Wash skin with soap and water.
Inhalation	If irritation develops, remove to fresh air. Get medical attention if symptoms persist.
Ingestion	If swallowed, wash mouth with water. DO NOT induce vomiting. If vomiting occurs, place victim's head below their knees. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Most important symptoms of exposure	May cause mild eye irritation.
Other	None known.
Note to Physicians (Treatment, Testing, and Monitoring): Treatment of overexposure should be directed at the control of symptoms and clinical conditions. Induction of vomiting is not recommended due to potential aspiration toxicity.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use water fog, carbon dioxide or foam. Do not use straight water stream.
Fire Fighting Procedures:	Cool fire exposed containers and structures with water.
Specific Hazards Arising from the Chemical:	Combustible liquid. Releases flammable vapors when heated above the flashpoint. Mists or sprays may burn at temperatures below the flashpoint.
Precautions for Fire Fighters:	Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals.



Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: For large spills, wear eye protection and gloves. Small spills do not require special precautions. Eliminate all ignition sources and ventilate the area.

Environmental Precautions: Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

Methods and Materials for Containment and Clean-up: Collect using an inert non-combustible absorbent material and place in appropriate containers for disposal. Clean spill area thoroughly.

Recommended Personal Protective Equipment for Containment and Clean-up:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes. Avoid prolonged skin contact. Use in accordance with package instructions. Keep product away from heat and sources of ignition.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from oxidizers. Do not store above 95°F (35°) or in direct sunlight for prolonged periods.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Mineral Oil:	United States	5 mg/m ³ inhalable TWA ACGIH TLV; 5 mg/m ³ TWA OSHA PEL
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established

Orange Oil Terpenes	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established

Biological Exposure Limits: None Established

Appropriate Engineering Controls: No special controls required for normal use. Use with adequate local or general ventilation to minimize exposure concentrations.

Individual Protection Measures (PPE)



Specific Eye/face Protection: Safety glasses should be worn if contact is likely.

Specific Skin Protection: Wear oil impervious gloved such as neoprene or nitrile for prolonged use. Recommended glove: Neoprene or nitrile. Consult glove supplier for thickness and breakthrough times.

Specific Respiratory Protection: None required under normal use conditions.

Specific Thermal Hazards: Not applicable

Recommended Personal Protective Equipment:

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

Environmental Exposure Controls: None required for normal use.

General Hygiene Considerations and Work Practices: Avoid prolonged skin contact. Routine hand washing after use recommended.

Protective Measures During Repair and Maintenance of Contaminated Equipment: Wear protective clothing and equipment as described in Section 8. Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Oily transparent liquid	Explosive limits:	Not determined
Odor:	Strong orange	Vapor pressure:	Not determined
Odor threshold:	Not available	Vapor density:	>1
pH:	4.9 (1:1)	Relative density:	0.798-0.882
Melting/freezing point:	Not determined	Solubility:	None
Initial boiling point and range:	Not determined	Partition coefficient: n-octanol/water:	Not determined
Flash point:	181°F / 82.8°C	Auto-ignition temperature:	Not available
Evaporation rate:	Not available	Decomposition temperature:	Not available
Flammability:	Not flammable but will burn	Viscosity:	Not available
Explosive Properties:	None	Oxidizing Properties:	None

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reactions anticipated.

Chemical Stability: Stable under ambient conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Avoid heat and sources of ignition.

Incompatible materials: Avoid oxidizing agents, and alkali metals.

Hazardous Decomposition Products: Thermal decomposition may produce carbon oxides and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Direct contact may cause mild irritation with redness and tearing.

Skin: Not expected to cause irritation. Prolonged or repeated skin contact may cause dryness, defatting and dermatitis.

Ingestion: Swallowing may cause nausea, vomiting and diarrhea. Aspiration into the lungs during swallowing or vomiting may cause severe lung damage.

Inhalation: None expected from normal use. Inhalation of mists that may be formed if product is heated or sprayed may cause irritation of the upper respiratory tract.

Chronic Health Effects: None known.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC, ACGIH, NTP or EU Directives. Lifetime skin painting studies in mice have shown no carcinogenic effects.

Mutagenicity: Mineral oil was negative in the modified AMES test and in-vitro mouse lymphoma assay.

Medical Conditions Aggravated by Exposure: Skin disorders may be aggravated by exposure.

Acute Toxicity Data:

Mineral Oil: Oral Rat LD50 >5,000 mg/kg; Skin rabbit LD50 >2,000 mg/kg

Orange Oil Terpenes: Oral Rat LD50 >5,000 mg/kg; Skin rabbit LD50 >5,000 mg/kg

Reproductive Toxicity Data: No data available.

Specific Target Organ Toxicity (STOT):

Single Exposure: Mineral Oil: Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above the applicable workplace exposure levels include lung inflammation, lipoid granuloma and lipid pneumonia.

Repeated Exposure: No adverse effects expected.

12. ECOLOGICAL INFORMATION

Toxicity: No data available.

Persistence and Degradability: Biodegradation data is not available.

Bio-accumulative Potential: No data is available.

Mobility in Soil: No data is available.

Other Adverse Effects: The coating action associated with petroleum products can be harmful or fatal to aquatic life.

Results of PBT/vPvB Assessment: Not required.

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose in accordance with local and national environmental regulations

Properties (Physical/Chemical) Affecting Disposal: None known.

Waste Treatment Recommendations: None needed for normal anticipated use.

14. TRANSPORT INFORMATION

UN Number:	ADR/RID: None	IMDG: None	IATA: None	DOT: None
UN proper shipping name:	ADR/RID: Not Regulated IMDG: Not Regulated IATA: Not Regulated DOT: Not Regulated			
Transport hazard class(es):	ADR/RID: None	IMDG: None	IATA: None	DOT: None
Packaging group:	ADR/RID: None	IMDG: None	IATA: None	DOT: None
Environmental hazards:	ADR/RID: No	IMDG Marine pollutant: No	IATA: No	DOT: No
Special precautions for user: Not applicable				

15. REGULATORY INFORMATION

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): Releases of oil to waterways must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA inventory or exempt.

Clean Water Act (CWA): Not Listed

Clean Air Act (CAA): Not Listed

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	No	Pressure Hazard:	No
Delayed Hazard:	No	Reactivity Hazard:	No
Fire Hazard:	No		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
None		

State Regulations

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

International Regulations

Canadian Environmental Protection Act: All the components of this product are listed on the Canadian DSL.

Canadian Workplace Hazardous Materials Information System (WHMIS): Not a controlled product.

EU REACH: The substances in this product comply with the EU REACH regulation as applicable.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3:

Xn Harmful

R65 Harmful: may cause lung damage if swallowed.

Date of SDS Preparation/Revision: 26 August 2011

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.