Safety Data Sheet

OR-SOC

Orange Cleaner, Stripper, & Degreaser

Section 1 (PRODUCT/MANUFACTURER IDENTIFICATION)
Manufactured by:

Oak Ridge Foam & Coating Systems, Inc
575 Commercial Ave.
Green Lake, WI 54941 USA

TRANSPORTATION EMERGENCY
CALL CHEMTREC: (800) 424-9300
INTERNATIONAL: (703) 527-3887

Section 2 (COMPOSITION/INFO ON INGREDIENTS)
Chemical characterization
Description: Mixture of the substances listed below with non-hazardous additions.

Dangerous components:
94266-47-4 Citrus Terpenes 50-100%
9016-45-9 Ethoxylated nonylphenol £ 2.5%
Additional information: For the wording of the listed risk phrases refer to section 16.

Section 3 (HAZARDS IDENTIFICATION)
Hazard description:
Irritant
Dangerous for the environment

Information pertaining to particular dangers for man and environment:
The product has to be labeled due to internationally acknowledged calculation procedures using the latest valid versions.

Flammable.
Irritating to skin.
May cause sensitization by skin contact.
Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

Classification system:
The classification was made according to the latest edit ions of international substances lists, and expanded upon from company and literature data.

Section 4 (FIRST AID MEASURES)

After inhalation:
Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:
If symptoms persist consult doctor.

Section 5 (FIRE FIGHTER MEASURES)
Suitable extinguishing agents: CO^2, sand, extinguishes powder. Do not use water.

For safety reasons unsuitable extinguishing agents:
Water
Water with full jet

Protective equipment:
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 (ACCIDENTAL RELEASE MEASURES)
Person-related safety precautions:
Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:
Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents

Section 7 (HANDLING AND STORAGE)
Handling:
Information for safe handling:
No special precautions are necessary if used correctly.

Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Storage:
Requirements to be met by storerooms and receptacles:
No special requirements.

Information about storage in one common storage facility:
Not required.

Further information about storage conditions:
Keep receptacle tightly sealed.

Section 8 (EXPOSURE CONTROLS AND PERSONAL PROTECTION)
Additional information about design of technical systems:
No further data; see item 7.

Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:
The lists that were valid during the creation were used as basis.

Personal protective equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.

Breathing equipment:
Not required.

Protection of hands:
Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product. Select the glove material upon consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Tightly sealed goggles

Section 9 (PHYSICAL AND CHEMICAL PROPERTIES)
General Information

Form: Fluid

Color: According to product specification

Odor: Characteristic: Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: 47°C (117°F)

Ignition temperature: 255.0°C (491°F)

Auto igniting: Product is not self-igniting.

Danger of explosion:
Product is not explosive. However, formations of explosive air/vapor mixtures are possible.

Explosion limits:
Lower: 0.7 Vol %
Upper: 6.1 Vol %

Vapor pressure at 20°C (68°F): 2.3 hPa (2 mm Hg)

Density at 20°C (68°F): 0.862 g/cm³

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

Solvent content: Organic solvents: 89.8 %

Section 10 (STABILITY AND REACTIVITY)
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous products of decomposition: No dangerous decomposition products known.

Section 11 (TOXICOLOGICAL INFORMATION)
Acute toxicity:

LD/LC50 values that is relevant for classification:
5989-27-5 (R)-p-mentha-1, 8-diene
Oral LD50 4400 mg/kg (rat)

Primary irritant effect:
Skin:
Irritant to skin and mucous membranes.

On the eye:
No irritating effect.

Sensitization:
Sensitization possible through skin contact.

Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

Section 12 (ECOLOGICAL INFORMATION)
Ecotoxical effects: Remark **very** toxic for fish

General notes:
Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

Section 13 (DISPOSAL CONSIDERATIONS)
Product:
Recommendation: Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

Unclean packagings:

Recommendation: Disposal must be made according to Federal, State, and Local regulations.

Section 14 (TRANSPORTATION INFORMATION)
DOT regulations:
Hazard class: 3
Identification number: UN2319
Packing group: III
Proper shipping name (technical name): TERPENE HYDROCARBONS, N.O.S.

Remarks: Add "Marine Pollutant" to end of proper shipping name if shipping in a bulk container (>119 gallons).

Maritime transport IMDG:
Hazard class: 3
Identification number: UN2319
Packing group: III
Proper shipping name (technical name): TERPENE HYDROCARBONS, N.O.S.

Air transport ICAO-TI and IATA-DGR:
Hazard class: 3
Identification number: UN2319
Packing group: III
Proper shipping name (technical name): TERPENE HYDROCARBONS, N.O.S.

Section 15 (REGULATIONS)
Sara
Section 355 (extremely hazardous substances): 75-21-8 ethylene oxide

Section 313 (Specific toxic chemical listings):
This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

98000-00-0 Glycol Ethers £ 1%
75-21-8 ethylene oxide £ 0.01%

TSCA (Toxic Substances Control Act):
All ingredients are listed.
Proposition 65

Chemicals known to the State of California (Prop. 65) to cause cancer:
75-21-8 ethylene oxide

Chemicals known to the State of California (Prop. 65) to cause reproductive toxicity:
None of the ingredients is listed.
Cancerogenity categories
EPA (Environmental Protection Agency)
None of the ingredients is listed.

IARC (International Agency for Research on Cancer)
5989-27-5 (R)-p-mentha-1, 8-diene 3
75-21-8 ethylene oxide 1

NTP (National Toxicology Program)
75-21-8 ethylene oxide R

TLV (Threshold Limit Value established by ACGIH)
75-21-8 ethylene oxide A2

MAK (German Maximum Workplace Concentration)
75-21-8 ethylene oxide 2

NIOSH-Ca (National Institute for Occupational Safety and Health)
75-21-8 ethylene oxide

NFPA ratings (scale 0 - 4)
Health = 2
Fire = 2
Reactivity = 0

HMIS-ratings (scale 0 - 4)
Health = 2
Fire = 2
Reactivity = 0

OSHA-Ca (Occupational Safety & Health Administration)
75-21-8 ethylene oxide

Product related hazard information:
The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols:
Irritant

Dangerous for the environment

Hazard-determining components of labeling:
(R)-p-mentha-1, 8-diene

Risk phrases:
Flammable.
Irritating to skin.
May cause sensitization by skin contact.
Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

Safety phrases:
Keep out of the reach of children.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, wash immediately with plenty of soap and water.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Wear suitable gloves.
In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
If swallowed, seek medical advice immediately and show this container or label.
Use appropriate container to avoid environmental contamination.
This material and its container must be disposed of as hazardous waste.
If swallowed, rinse mouth with water (only if the person is conscious).

Section 16 (OTHER INFORMATION)
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Department issuing MSDS: Environmental, Health and Safety department

To the best of our knowledge, the information contained herein is accurate, obtained from sources that Coating Holdings LTD believes to be accurate.

Contact Person:	Product Safety Department
Telephone:	800-625-9577
Version Date:	10/2008

For Additions Information:
Contact: MSDS Coordinator-
Coating Holdings LTD
During business hours, Center-800-625-9577

NOTICE
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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refers to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Oak Ridge sales office.

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END OF MSDS
MFG by Oak Ridge Foam & Coating Systems, Inc