

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/26/2003

Reviewed on 03/26/2003

1 Identification of substance

· **Product details**

· **Trade name:** Spectrum

· **Article number:** 83-300375

· **Manufacturer/Supplier:**

Conspec
4226 Kansas Avenue
Kansas City, KS 66106

Tel.: (877) 266-7732

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

· **Information department:** Environmental, Health, and Safety department.

2 Composition/Data on components

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

8052-41-3	Stoddard solvent	10-25%
95-63-6	1,2,4-trimethylbenzene	10-25%
64742-95-6	Solvent naphtha (petroleum), light arom.	10-25%
64742-88-7	Solvent naphtha (petroleum), medium aliph.	£ 2.5%
25551-13-7	Trimethylbenzene	£ 2.5%
108-67-8	mesitylene	£ 2.5%
1330-20-7	xylene	£ 2.5%
98-82-8	cumene	£ 1%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· **Hazard description:**

Toxic

Dangerous for the environment

· **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.

May cause cancer.

Flammable.

Irritating to respiratory system and skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful: may cause lung damage if swallowed.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 2
Reactivity = 0

· **HMSI-ratings (scale 0 - 4)**

Health = *2
Fire = 2
Reactivity = 0

4 First aid measures

- **After inhalation:** 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. Then consult a doctor.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing 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.

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.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

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7 Handling and storage

- **Handling:**
- **Information for safe handling:** Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
 - Keep respiratory protective device available.
- **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.

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:**

8052-41-3 Stoddard solvent

PEL	2900 mg/m ³ , 500 ppm
REL	Short-term value: C 1800* mg/m ³ Long-term value: 350 mg/m ³ *15-min
TLV	525 mg/m ³ , 100 ppm

25551-13-7 Trimethylbenzene

REL	125 mg/m ³ , 25 ppm (1,2,3-; 1,2,4-; and 1,3,5-isomers)
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1330-20-7 xylene

PEL	435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm (o-, m-, & p-isomers)
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm
BEI	

- **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.
 - Store protective clothing separately.
 - Avoid contact with the skin.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles

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: 138°C (280°F)

· Flash point: 41°C (106°F)

· Ignition temperature: 230.0°C (446°F)

· Auto igniting: Product is not selfigniting.

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

· Explosion limits:

Lower:	0.7 Vol %
Upper:	7.5 Vol %

· Vapor pressure at 20°C (68°F): 5.0 hPa (4 mm Hg)

· Density at 20°C (68°F): 0.888 g/cm³

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Solvent content:

Organic solvents: 34.1 %

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· Solids content: 24.9 %

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.

11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

95-63-6 1,2,4-trimethylbenzene

Oral	LD50	5000 mg/kg (rat)
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64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** No irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic.

12 Ecological information

· **Ecotoxicological effects:**· **Remark:** Toxic for fish· **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

· **Product:**· **Recommendation:** Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

· DOT regulations:



- **Hazard class:** 3
- **Identification number:** UN1268
- **Packing group:** III
- **Proper shipping name (technical name):** PETROLEUM DISTILLATES, N.O.S.
- **Label:** 3
- **Limited Quantity Exemption:** Limited Quantity applies for inner packages 1.3 gallons or smaller.
- **U.S. Domestic Ground Shipments:** Combustible liquids, n.o.s. (Petroleum Distillates), NA1993, PG III
- **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:** Not Regulated by D.O.T.

· Land transport ADR/RID (cross-border):



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 30
- **UN-Number:** 1268
- **Packaging group:** III
- **Description of goods:** 1268 PETROLEUM DISTILLATES, N.O.S. (TURPENTINE SUBSTITUTE, 1,2,4-trimethylbenzene)

· Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 1268
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** Yes

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· **Propper shipping name:** PETROLEUM DISTILLATES, N.O.S.

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1268
 · **Label:** 3
 · **Packaging group:** III
 · **Propper shipping name:** PETROLEUM DISTILLATES, N.O.S.

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **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.

95-63-6	1,2,4-trimethylbenzene	10-25%
1330-20-7	xylene	£2.5%
98-82-8	cumene	£1%
100-41-4	ethylbenzene	£1%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to the State of California (Prop. 65) to cause cancer:**

64742-95-6 Solvent naphtha (petroleum), light arom.

· **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)**

1330-20-7	xylene	D
98-82-8	cumene	D;CBD
100-41-4	ethylbenzene	D

· **IARC (International Agency for Research on Cancer)**

1330-20-7 xylene 3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· TLV (Threshold Limit Value established by ACGIH)
1330-20-7 xylene A4
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Toxic

Dangerous for the environment

· **Hazard-determining components of labelling:**

Stoddard solvent

Solvent naphtha (petroleum), light arom.

· **Risk phrases:**

May cause cancer.

Flammable.

Irritating to respiratory system and skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

Avoid exposure - obtain special instructions before use.

Keep out of the reach of children.

Keep container in a well-ventilated place.

Keep away from food, drink and animal feeding stuffs.

Keep away from sources of ignition - No smoking.

When using do not eat or drink.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· **National regulations:**

· **Water hazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

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

· **Contact:** Matthew Paquette