



NATURAL PIGMENTS

Safety Data Sheet Mineral Spirits (Stoddard Solvent)

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Mineral Spirits (Stoddard Solvent)
Product number	520-1STDxx
Brand	Rublev Colours
Substance name	Stoddard solvent
EC no.	232-489-3
CAS no.	8052-41-3

1.2 Other means of identification

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1.3 Recommended use of the chemical and restrictions on use

For use in art painting and restoration. Not recommended for children.

1.4 Supplier's details

Name	Natural Pigments
Address	291 Shell Lane Willits CA 95490 United States
Telephone	707-459-9998
Fax	707-275-6063
email	service@naturalpigments.com

1.5 Emergency phone number

INFOTRAC 1-800-424-9300 within North America or +1-352-323-3500 domestically or internationally.
Account Number 115514

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Flammable liquids, Cat. 3

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- Aspiration hazard, Cat. 1
- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictograms



1. Flame; 2. Health hazard; 3. Exclamation mark

Signal word

Danger

Hazard statement(s)

H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/face protection/protective gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/.../ if you feel unwell.
P331	Do NOT induce vomiting.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use ... to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substance name: Stoddard solvent; CAS no.: 8052-41-3

Other names / synonyms: Stoddard solvent

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Hazardous components

Component	CAS no.	Concentration
stoddard solvent (Index no.: 649-345-00-4)	8052-41-3	90 - 100 % (weight)
CLASSIFICATIONS: Carcinogenicity, Cat. 1B; Germ cell mutagenicity, Cat. 1B; Aspiration hazard, Cat. 1; Specific target organ toxicity (repeated exposure), Cat. 1. HAZARDS: H304 - May be fatal if swallowed and enters airways; H340 - May cause genetic defects [route]; H350 - May cause cancer [route]; H372 - Causes damage to organs [organs] through prolonged or repeated exposure [route].		
1,2,4-Trimethylbenzene (Index no.: 601-043-00-3)	95-63-6	5 - 10 % (weight)
CLASSIFICATIONS: Flammable liquids, Cat. 3; Acute toxicity, inhalation, Cat. 4; Specific target organ toxicity (single exposure), Cat. 3; Skin corrosion/irritation, Cat. 2; Eye damage/irritation, Cat. 2; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H226 - Flammable liquid and vapor; H315 - Causes skin irritation; H319 - Causes serious eye irritation; H332 - Harmful if inhaled; H335 - May cause respiratory irritation; H411 - Toxic to aquatic life with long lasting effects.		
XYLENES (MIXED) (Index no.: 601-022-00-9)	1330-20-7	5 - 10 % (weight)
CLASSIFICATIONS: Flammable liquids, Cat. 3; Acute toxicity, inhalation, Cat. 4; Acute toxicity, dermal, Cat. 4; Skin corrosion/irritation, Cat. 2. HAZARDS: H226 - Flammable liquid and vapor; H312 - Harmful in contact with skin; H315 - Causes skin irritation; H332 - Harmful if inhaled. [SCLs/M-factors/ATEs]: *		
Benzene, trimethyl-	25551-13-7	5 - 10 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		
N-NONANE	111-84-2	5 - 10 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		
ETHYLBENZENE (Index no.: 601-023-00-4)	100-41-4	0.1 - 1 % (weight)
CLASSIFICATIONS: Flammable liquids, Cat. 2; Acute toxicity, inhalation, Cat. 4; Aspiration hazard, Cat. 1; Specific target organ toxicity (repeated exposure), Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H332 - Harmful if inhaled; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route].		
NAPHTHALENE (Index no.: 601-052-00-2)	91-20-3	0.1 - 1 % (weight)
CLASSIFICATIONS: Carcinogenicity, Cat. 2; Acute toxicity, oral, Cat. 4; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H351 - Suspected of causing cancer [route]; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.		
Cumene (Index no.: 601-024-00-X)	98-82-8	0.1 - 1 % (weight)
CLASSIFICATIONS: Flammable liquids, Cat. 3; Aspiration hazard, Cat. 1; Specific target organ toxicity (single exposure), Cat. 3; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H226 - Flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H335 - May cause respiratory irritation; H411 - Toxic to aquatic life with long lasting effects.		

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Personal protective equipment for first-aid responders	First Aid responders should pay attention to self-protection and use the recommended protective clothing.

4.2 Most important symptoms/effects, acute and delayed

Irritation

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Dermatitis
Headache
Dizziness
Unconsciousness
Aspiration may cause pulmonary edema and pneumonitis.
Fatigue
Nausea

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

In case of shortness of breath, give oxygen. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use dry chemical, CO₂, water spray (fog) or foam.
Not suitable : Do not use water jet.

5.2 Specific hazards arising from the chemical

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

5.3 Special protective actions 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

Further information

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

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). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1

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for emergency contact information and section 13 for waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion -proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 100-41-4

ETHYLBENZENE

AU/SWA (Australia): 125 ppm; 543 mg/m³ STEL inhalation; 100 ppm; 434 mg/m³ TWA inhalation; Cal/OSHA: 100 ppm, (ST) 125 ppm PEL inhalation; NIOSH: 100 ppm, (ST) 125 ppm REL inhalation; OSHA: 100 ppm PEL inhalation; 435 mg/m³ PEL inhalation

CAS: 111-84-2

N-NONANE

AU/SWA (Australia): 200 ppm; 1050 mg/m³ TWA inhalation

CAS: 1330-20-7

XYLENES (MIXED)

Cal/OSHA: 100 ppm, (ST) 150 ppm, (C) 300 ppm PEL inhalation; NIOSH: 100 ppm, (ST) 150 ppm REL inhalation; OSHA: 100 ppm PEL inhalation; 435 mg/m³ PEL inhalation

CAS: 25551-13-7

Benzene, trimethyl-

AU/SWA (Australia): 25 ppm; 123 mg/m³ TWA inhalation

CAS: 8052-41-3

Stoddard solvent

Cal/OSHA (US): 100 ppm PEL inhalation; NIOSH (US): 350 mg/m³, (C) 1800 mg/m³ [15-min] REL inhalation; US/OSHA (US): 500 ppm PEL inhalation; 2900 mg/m³ PEL inhalation; ACGIH (United States): 100 ppm TLV®-TWA inhalation; 525 mg/m³ TLV®-TWA inhalation; NIOSH (United States): 1800 mg/m³ CEIL inhalation; 350 mg/m³ TWA inhalation; OSHA (United States): 100 ppm PEL-TWA inhalation; 525 mg/m³ PEL-TWA inhalation; 500 ppm PEL-TWA inhalation; 2900 mg/m³ PEL-TWA inhalation

CAS: 91-20-3

Naphthalene

AU/SWA (Australia): 15 ppm; 79 mg/m³ STEL inhalation; 10 ppm; 52 mg/m³ TWA inhalation; Cal/OSHA: 10

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ppm, (ST) 15 ppm PEL inhalation; NIOSH: 10 ppm, (ST) 15 ppm REL inhalation; OSHA: 10 ppm PEL inhalation; 50 mg/m³ PEL inhalation

CAS: 98-82-8

Cumene

AU/SWA (Australia): 75 ppm; 375 mg/m³ STEL inhalation; 25 ppm; 125 mg/m³ TWA inhalation; Cal/OSHA: 50 ppm PEL inhalation; NIOSH: 50 ppm REL inhalation; OSHA: 50 ppm PEL inhalation; 245 mg/m³ PEL inhalation

8.2 Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles.

Skin protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Recommended: nitrile rubber.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended: lab coat.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

Appearance, such as physical state and colour	Clear, transparent
Odour	Hydrocarbon
Odour threshold	1 ppm
pH	Not data available.
Melting point and freezing point	76 - 76 °C (-105 °F)
Initial boiling point and boiling range	157 - 218 °C (315 - 424 °F)
Flash point	Closed cup: 38 °C (100.4 °F)
Evaporation rate	Not available

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Flammability, in the case of solids and gases	No data available.
Upper and lower flammability or explosive limits	Lower: 0.6% Upper: 8%
Vapour pressure	0.1 to 1.4 kPa (0.75 to 1.05 mm Hg) @ 20 °C
Vapour density	4.5 to 5 [Air = 1]
Relative density	0.765 to 0.795
Solubility	Insoluble in the following materials: water
Partition coefficient — n-octanol/water	Not data available.
Auto-ignition temperature	230 - 240 °C (446 - 464 °F)
Decomposition temperature	No data available.
Viscosity	Not data available.

Additional properties

Physical state Liquid

Particle characteristics

Not data available.

Supplemental information regarding physical hazard classes

Not data available.

Further safety characteristics (supplemental)

Not data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Under normal conditions of storage and use, hazardous reactions will not occur.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous polymerization will not occur.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials. Vapor may travel a considerable distance to source of ignition and flash back. Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials.

10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Oral Toxicity:

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LD50 (Rat): > 5,000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity.

Acute inhalation toxicity:

LC50 (Rat, male and female): mg/m³ >5500

Exposure time: 4 h

Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhalation toxicity.

Acute dermal toxicity:

LD50 (Rabbit, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity.

Skin corrosion/irritation

Eyes - Mild irritant Human

Eyes - Moderate irritant Rabbit

Serious eye damage/irritation

May cause irreversible eye damage.

Respiratory or skin sensitization

Test Type: Buehler

Test Species: Guinea pig

Result: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Mutagenicity not possible from current data.

Carcinogenicity

Species: Rat, (male and female)

Application Route: Inhalation

Exposure time: 105 wks

Activity duration: 6 h

Dose: 0, 138, 550, 1100, 2200 mg/m³

Frequency of Treatment: 5 days/week

NOAEL: 138 mg/m³

Result: No evidence of carcinogenic activity in females, Evidence of carcinogenic activity in males Symptoms: Increased incidence of pheochromocytomas in adrenal glands

Carcinogenicity - Assessment: Suspected human carcinogens

IARC: Group 2B: Possibly carcinogenic to humans

100-41-4 **Ethylbenzene

91-20-3 **Naphthalene

98-82-8 **Cumene

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP: Reasonably anticipated to be a human carcinogen

Reproductive toxicity

Reproductive toxicity - Assessment: Clear evidence of adverse effects on development, based on animal experiments.

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Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

May be fatal if swallowed and enters airways.

Additional information

XYLENES (MIXED):

TOXICITY:

typ. dose mode specie amount unit other

TCLo ihl hmn 200 ppm

LCLo ihl man 10000 ppm/6H

LD50 orl rat 4300 mg/kg

LC50 ihl rat 5000 ppm/4H

LD50 scu rat 1700 mg/kg

LD50 ipr mus 1548 mg/kg

LDLo ipr gpg 2000 mg/kg

LDLo ipr mam 2000 mg/kg

LCLo ihl gpg 450 ppm

LDLo orl hmn 50 mg/kg

AQTX/TLM96: 100-10 ppm

SAX TOXICITY EVALUATION:

THR = MODERATE via inhalation and oral routes.

CARCINOGENICITY:

Review: IARC Cancer Review: Human Inadequate Evidence

IARC Cancer Review: Animal Inadequate Evidence

IARC: Not classifiable as a human carcinogen (Group 3) [610]

Status: NTP Carcinogenesis Studies (Gavage); No Evidence: Male and Female Rat, Male and Female Mouse [620]

MUTATION DATA:

test lowest dose | test lowest dose

cyt-smc 1 mmol/tube

TERATOGENICITY:

Reproductive Effects Data:

TCLo: ihl-rat 1000 mg/m³/24H (9-14D preg)

TCLo: ihl-rat 50 mg/m³/6H (1-21D preg)

TCLo: ihl-rat 600 mg/m³/24H (7-15D preg)

TDLo: orl-mus 20600 ug/kg (6-15D preg)

TCLo: ihl-mus 4000 ppm/6H (6-12D preg)

TDLo: orl-mus 31 mg/kg (6-15D preg)

TCLo: ihl-mus 2000 ppm/6H (6-12D preg)

STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 100 ppm [610]

Final Limit: PEL-TWA 100 ppm; STEL 150 ppm [610]

ACGIH: TLV-TWA 100 ppm; STEL 150 ppm [610]

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NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:

TWA 100 ppm; Ceiling Limit 200 ppm/10M [015,610]

NFPA Hazard Rating: Health (H): 2

Flammability (F): 3

Reactivity (R): 0

H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).

F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).

R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

eye-hmn 200 ppm

skn-rbt 100% MOD

skn-rbt 500 mg/24H MOD

eye-rbt 87 mg MLD

eye-rbt 5 mg/24H SEV

Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid

DOT-IMO: Flammable or Combustible liquid; Label:

Flammable liquid

Status: NIOSH Analytical Methods: see hydrocarbons, aromatic, 1501

EPA TSCA Chemical Inventory, 1986

EPA TSCA 8(a) Preliminary Assessment Information, Final Rule

EPA Genetox Program 1986, Negative: In vitro SCE-human lymphocytes;

In vitro SCE-human

EPA TSCA Test Submission (TSCATS) Data Base, December 1986

Meets criteria for proposed OSHA Medical Records Rule

N-NONANE:

TOXICITY:

typ. dose mode specie amount units other

LC50 ihl rat 3200 ppm/4H

LD50 ivn mus 218 mg/kg

AQTX/TLM96: Not available

SAX TOXICITY EVALUATION:

THR: Poison by intravenous route. Mildly toxic by inhalation. Irritating to the respiratory tract. Narcotic in high concentrations.

CARCINOGENICITY: Not available

MUTATION DATA: Not available

TERATOGENICITY: Not available

STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89)

Final Limit: PEL-TWA 200 ppm [015,545,610]

ACGIH: TLV-TWA 200 ppm [015,415,421,610]

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): 0

Flammability (F): 3

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Reactivity (R): 0

H0: Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material (see NFPA for details).

F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).

R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

OTHER TOXICITY DATA:

Standards and Regulations: DOT-IMO: Flammable or Combustible liquid;

Label: Flammable liquid

Status: EPA TSCA Chemical Inventory, 1986

EPA TSCA Test Submission (TSCATS) Data Base, September 1989

ETHYLBENZENE:

TOXICITY:

typ. dose mode specie amount unit other

TCLo ihl hmn 100 ppm/8H

LD50 orl rat 3500 mg/kg

LCLo ihl rat 4000 ppm/4H

LD50 skn rbt 17800 mg/kg

LCLo ihl gpg 10000 ppm

AQTX/TLM96: 100-10 ppm.

SAX TOXICITY EVALUATION:

THR: MODERATE via irritation to the skin, eyes and mucous membranes, and via oral and inhalation routes. A concentration of 0.19% vapor in air will irritate eyes; 0.2% is extremely irritating. An experimental teratogen.

CARCINOGENICITY:

Status: NTP Carcinogenesis Studies; selected but deferred, April 1984

MUTATION DATA:

test lowest dose

sce-hmn:lym 1 mmol/L

TERATOGENICITY:

Reproductive Effects Data:

TCLo: ihl-rat 97 ppm/7H (15D preg)

TCLo: ihl-rat 985 ppm/7H (1-19D preg)

TCLo: ihl-rat 96 ppm/7H (1-19D preg)

TCLo: ihl-rbt 99 ppm/7H (1-18D preg)

STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 100 ppm [610]

Final Limit: PEL-TWA 100 ppm, STEL 125 ppm [610]

ACGIH: TLV-TWA 100 ppm, STEL 125 ppm [610]

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): 2

Flammability (F): 3

Reactivity (R): 0

H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).

F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).

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R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

skn-rbt 15 mg/24H open MLD

eye-rbt 100 mg

Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid

Status: "NIOSH Manual of Analytical Methods, 3rd. Ed."

Reported in EPA TSCA Inventory, 1983

EPA TSCA 8(a) Preliminary Assessment Information Final Rule

EPA Genetic Toxicology Program, January 1984

EPA TSCA Section 8(e) Status Report 8EHQ-0680-0345

EPA TSCA Section 8(e) Status Report 8EHQ-1080-0368

Meets criteria for proposed OSHA Medical Records Rule

NAPHTHALENE:

TOXICITY:

typ. dose mode specie amount units other

LDLo orl chd 100 mg/kg

LDLo unr man 74 mg/kg

LD50 orl rat 490 mg/kg

LD50 orl mus 533 mg/kg

LD50 scu mus 969 mg/kg

LDLo orl dog 400 mg/kg

LDLo orl cat 1000 mg/kg

LDLo orl rbt 3 gm/kg

LD50 orl gpg 1200 mg/kg

LDLo unr hmn 29 mg/kg

LD50 ipr mus 150 mg/kg

LD50 ivn mus 100 mg/kg

AQTX/TLM96: Not available

SAX TOXICITY EVALUATION:

THR: Human poison by ingestion and possibly other routes. Experimental poison by ingestion, intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route. An experimental tumorigen. Experimental reproductive effects. Mutagenic data. An eye and skin irritant.

CARCINOGENICITY:

Tumorigenic Data:

TDLo: scu-rat 3500 mg/kg/12W-I

Status: NTP Carcinogenesis Studies; on test (two year studies), January 1988

TERATOGENICITY:

Reproductive Effects Data:

TDLo: ipr-rat 5925 mg/kg (1-15D preg)

TDLo: orl-mus 2400 mg/kg (7-14D preg)

STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 10 ppm [610]

Final Limit: PEL-TWA 10 ppm; STEL 15 ppm [610]

ACGIH: TLV-TWA 10 ppm; STEL 15 ppm [015,414,421,610]

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NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): 2

Flammability (F): 2

Reactivity (R): 0

H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).

F2: Materials which must be moderately heated before ignition will occur (see NFPA for details).

R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

skn-rbt 495 mg open MLD

eye-rbt 100 mg MLD

Review: Toxicology Review-2

Standards and Regulations: DOT-Hazard: ORM-A; Label: None

DOT-IMO: Flammable solid; Label: Flammable solid

Status: EPA Genetox Program 1988, Negative: Cell transform.-mouse embryo

EPA Genetox Program 1988, Negative: Cell transform.-RLV F344 rat embryo

EPA Genetox Program 1988, Negative: Histidine reversion-Ames test

EPA TSCA Chemical Inventory, 1986

EPA TSCA Test Submission (TSCATS) Data Base, June 1988

NIOSH Analytical Methods: see Hydrocarbons, Aromatic, 1501;

NIOSH Analytical Methods: see Polynuclear Aromatic Hydrocarbons

(HPLC), 5506; (GC), 5515

Meets criteria for proposed OSHA Medical Records Rule

IDLH value: 500 ppm [346,371]

Fatal dose: 5-15 g [071]

Cumene: human TCLo inhalation 200ppm (200ppm) BEHAVIORAL: SOMNOLENCE (GENERAL DEPRESSED ACTIVITY)

BEHAVIORAL: ANTIPSYCHOTIC

BEHAVIORAL: IRRITABILITY "Handbook of Organic Industrial Solvents," 2nd ed., Chicago, National Assoc. of Mutual Casualty Companies, 1961Vol. 2, Pg. 39, 1961.

mouse LC50 inhalation 10gm/m³/7H (10000gm/m³) LIVER: MULTIPLE EFFECTS

KIDNEY, URETER, AND BLADDER: CHANGES IN BOTH TUBULES AND GLOMERULI

BLOOD: CHANGES IN SPLEEN Journal of Industrial Hygiene and Toxicology. Vol. 26, Pg. 264, 1944.

mouse LD50 oral 12750mg/kg (12750mg/kg) Gigiena i Sanitariya. For English translation, see HYSAAV. Vol.

36(9), Pg. 18, 1971.

rabbit LD50 skin 12300uL/kg (12.3mL/kg) AMA Archives of Industrial Hygiene and Occupational Medicine. Vol. 4, Pg. 119, 1951.

rat LCLo inhalation 8000ppm/4H (8000ppm) AMA Archives of Industrial Hygiene and Occupational Medicine. Vol. 4, Pg. 119, 1951.

rat LD50 oral 1400mg/kg (1400mg/kg) GASTROINTESTINAL: GASTRITIS AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956.

SECTION 12: Ecological information

Bioaccumulative potential

Safety Data Sheet

Mineral Spirits (Stoddard Solvent)

This product shows a high bioaccumulation potential. Water polluting material. May be harmful to the environment if released in large quantities.

Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

DOT (US)

UN Number: UN1268

Class: 3

Packing Group: III

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

IMDG

UN Number: UN1268

Class: 3

Packing Group: III

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

IATA

UN Number: UN1268

Class: 3

Packing Group: III

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Australian Inventory of Chemical Substances (AICS)

This material is listed or exempted.

California Prop. 65 Components

WARNING: This product can expose you to chemicals, including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Chemical name: XYLENES (MIXED)

CAS number: 1330-20-7

06/11/2004 - Cancer

Chemical name: ETHYLBENZENE

Safety Data Sheet

Mineral Spirits (Stoddard Solvent)

CAS number: 100-41-4
06/11/2004 - cancer

Chemical name: NAPHTHALENE
CAS number: 91-20-3
04/19/2002 - cancer

Chemical name: Cumene
CAS number: 98-82-8
04/06/2010 - Cancer

EU Table of Harmonised Entries (Annex VI to CLP)

Chemical name: stoddard solvent
CAS number: 8052-41-3

Inventory of Existing Chemical Substances in China (IECSC)

This material is listed or exempted.

Japanese Existing and New Chemical Substances (ENCS)

Not determined.

Korean Existing Chemicals List (KECL)

This material is listed or exempted.

Massachusetts Right To Know Components

Chemical name: 1,2,4-Trimethylbenzene
CAS number: 95-63-6

Chemical name: Xylene (mixed isomers)
CAS number: 1330-20-7

Chemical name: Ethylbenzene
CAS number: 100-41-4

Chemical name: Naphthalene
CAS number: 91-20-3

Chemical name: Cumene
CAS number: 98-82-8

Massachusetts Right To Know Components (105 CMR 670)

Chemical name: STODDARD SOLVENT
CAS number: 8052-41-3
Asterisk: no; Refs: 2,4

New Jersey Right To Know Components

Common name: STODDARD SOLVENT
CAS number: 8052-41-3

Common name: PSEUDOCUMENE
CAS number: 95-63-6

Safety Data Sheet

Mineral Spirits (Stoddard Solvent)

Common name: XYLENES
CAS number: 1330-20-7

Common name: TRIMETHYL BENZENE (mixed isomers)
CAS number: 25551-13-7

Common name: NONANE
CAS number: 111-84-2

Common name: ETHYL BENZENE
CAS number: 100-41-4

Common name: NAPHTHALENE
CAS number: 91-20-3

Common name: CUMENE
CAS number: 98-82-8

Common name: STODDARD SOLVENT
CAS number: 8052-41-3
Listing note: F2-flammable 2nd deg.

Pennsylvania Right To Know Components

Chemical name: Stoddard solvent
CAS number: 8052-41-3

Chemical name: Pseudocumene
CAS number: 95-63-6

Chemical name: Benzene, dimethyl-
CAS number: 1330-20-7

Chemical name: Benzene, trimethyl-
CAS number: 25551-13-7

Chemical name: Nonane
CAS number: 111-84-2

Chemical name: Benzene, ethyl-
CAS number: 100-41-4

Chemical name: Naphthalene
CAS number: 91-20-3

Chemical name: Benzene, (1-methylethyl)-
CAS number: 98-82-8

SARA 302 Components

Extremely hazardous substances: No products were found.
Emergency planning and notification: No products were found.
Hazardous chemicals: Stoddard solvent

Safety Data Sheet

Mineral Spirits (Stoddard Solvent)

MSDS distribution - chemical inventory - hazard identification: Stoddard solvent: Fire hazard, Immediate (acute) health hazard

SARA 311/312 Hazards

Hazardous chemicals: Stoddard solvent

MSDS distribution - chemical inventory - hazard identification: Stoddard solvent: Fire hazard, Immediate (acute) health hazard

SARA 313 Components

Hazardous chemicals: Stoddard solvent

MSDS distribution - chemical inventory - hazard identification: Stoddard solvent: Fire hazard, Immediate (acute) health hazard

US EPA TSCA public inventory

Chemical name: stoddard solvent

CAS number: 8052-41-3

US Toxic Substances Control Act (TSCA) Inventory

This product is listed on the TSCA Inventory.

HMIS Rating

Stoddard solvent	
HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

The statements contained herein are based upon technical data that Natural Pigments believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. NATURAL PIGMENTS MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.