Solvent

SECTION 1: Identification

Product identifier

Product name: Solvent
Product code: 40401; 40404; 40405; 40416

Recommended use of the product and restriction on use

Relevant identified uses: Solvent
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
United States
P.O.R. Products
38 Portman Road
New Rochelle, NY 10801
914-636-0700

Emergency telephone number:

United States
ChemTel Inc.
+1 800 255 3924
+1 813 248 0585

SECTION 2: Hazard(s) identification

GHS classification:

Flammable liquids, category 3
Aspiration hazard, category 1
Specific target organ toxicity - single exposure, category 3, respiratory irritation
Specific target organ toxicity - single exposure, category 3, central nervous system
Carcinogenicity, category 2

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:

H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

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P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/light/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use agents recommended in section 5 for extinction.
P331 Do not induce vomiting.
P301+P310 If swallowed: Immediately call a poison center or doctor/physician.
P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
P308+P313 If exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 95-63-6	1, 2, 4-Trimethylbenzene	<35
CAS number: 1330-20-7	Xylene	<3
CAS number: 64742-95-6	Solvent naphtha (petroleum), light arom.	100
CAS number: 98-82-8	Cumene	<2

Additional Information:

** Xylene, Cumene and 1, 2, 4-Trimethylbenzene are components present in the light aromatic naphtha complex, and because they present unique health and environmental hazards, they are listed separately here for clarity.

SECTION 4: First aid measures

Description of first aid measures

General notes:

Get medical attention if you feel unwell

After inhalation:

Take precautions to ensure your own safety
Remove source of exposure or move person to fresh air
Get medical advice if you feel unwell or concerned

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

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After eye contact:
Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention

After swallowing:
Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:
Not determined or not applicable.

Delayed symptoms and effects:
Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:
Not determined or not applicable.

Notes for the doctor:
If ingested, may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:
Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:
Do not use a water stream as an extinguisher

Specific hazards during fire-fighting:
Thermal decomposition can lead to release of irritating gases and vapors
Vapors can flow to distant ignition sources and flashback
Liquid is volatile and may generate an explosive atmosphere

Special protective equipment for firefighters:
Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:
Shut off sources of ignition
Carbon monoxide and carbon dioxide may form upon combustion
Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing
Beware of vapors accumulating to form explosive concentrations
Vapors can accumulate in low areas

Environmental precautions:
Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:
Wear protective eye wear, gloves and clothing
Use spark-proof tools and explosion-proof equipment

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Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:
Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:
Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.
Take precautionary measures against electrostatic discharges.
Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:
Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.
Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Xylene	1330-20-7	ACGIH TWA: 100.0 ppm
	Xylene	1330-20-7	ACGIH STEL: 150.0 ppm
	Cumene	98-82-8	ACGIH TLV TWA: 50 ppm
United States (OSHA)	Xylene	1330-20-7	OSHA TWA 100.0 ppm 435.0 mg/m³
	Cumene	98-82-8	OSHA PEL TWA 50 ppm, 245.0 mg/m³
NIOSH	Cumene	98-82-8	NIOSH REL TWA 50 ppm, 245.0 mg/m³
	1, 2, 4-Trimethylbenzene	95-63-6	NIOSH REL TWA 25 ppm, 125.0 mg/m³

Biological limit values:
No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:
Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
Use explosion-proof ventilation equipment.

Personal protection equipment

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Eye and face protection:
Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:
Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear colorless liquid
Odor	Aromatic
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	-14°C (7°F)
Initial boiling point/range	161°C (322°F) - 171°C (340°F)
Flash point (closed cup)	46°C (115°F) [ASTM D-56]
Evaporation rate	0.27 (n-butyl acetate=1)
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	6.2
Lower flammability/explosive limit	0.9
Vapor pressure	0.269 kPa (2.02 mmHg) at 20°C | 0.815 kPa (6.13 mmHg) at 38°C
Vapor density	4.2 at 101 kPa (Air=1)
Density	873 kg/m³ (7.29 lb/gal, 0.87 kg/dm³) at 15°C
Relative density	0.874 at 15.6°C
Solubilities	Negligible solubility in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	485°C (905°F)
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	0.75 cSt (0.75 mm²/s) at 40°C | 0.9 cSt (0.9 mm²/s) at 25°C
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:
Does not react under normal conditions of use and storage.

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Chemical stability:
Stable under normal conditions of use and storage.

Possibility of hazardous reactions:
None under normal conditions of use and storage.

Conditions to avoid:
Avoid heat, sparks, open flames and other sources of ignition.

Incompatible materials:
Strong oxidizing agents.
Nitric acid.
Sulfuric acid.

Hazardous decomposition products:
None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Xylene	dermal	LD50 - Rat - > 1,700 mg/kg
	inhalation	LC50 - Rat - 5,000 ppm/4 h
1, 2, 4-Trimethylbenzene	inhalation	LC50 - Rat - 18,000 mg/m³

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Xylene	Irritating to the skin.
1, 2, 4-Trimethylbenzene	Irritating to the skin.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	Irritating effect on the eyes.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

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Name	Result
Cumene	No skin irritation
	No eye irritation

Carcinogenicity

Assessment: Suspected of causing cancer

Product data: No data available.

Substance data:

Name	Species	Result
Solvent naphtha (petroleum), light arom.	Solvent naphtha (petroleum), light arom.	Component may cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Xylene	Group 3 - Not classifiable as to its carcinogenicity to humans
Cumene	Group 2B - Possibly carcinogenic to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Solvent naphtha (petroleum), light arom.	May cause genetic defects.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: May cause respiratory irritation May cause drowsiness or dizziness

Product data:

No data available.

Substance data:

Name	Result
Cumene	Component affects the respiratory system.
1, 2, 4-Trimethylbenzene	Component affects the respiratory system.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: May be fatal if swallowed and enters airways

Product data:

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No data available.

Substance data: No data available.

Information on likely routes of exposure:
No data available.

Symptoms related to the physical, chemical and toxicological characteristics:
No data available.

Other information:
No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Cumene	EC50 - Daphnia magna - 1.4 mg/L - 24 h
	LC50 - Pimephales promelas - 6.32 mg/L - 96 h
1, 2, 4-Trimethylbenzene	LC50 - Pimephales promelas - 7.72 mg/L - 96 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	1268
UN proper shipping name	Petroleum Distillates, N.O.S. (Solvent naphtha (petroleum), light aromatic)
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None

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Special precautions for user	None
Passenger air/rail	60L
Cargo aircraft only	220L
Stowage category	A

International Maritime Dangerous Goods (IMDG)

UN number	1268
UN proper shipping name	Petroleum Distillates, N.O.S. (Solvent naphtha (petroleum), light aromatic)
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None
EmS number	F-E, S-E
Excepted quantities	E1
Limited quantity	5L

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	1268
UN proper shipping name	Petroleum Distillates, N.O.S. (Solvent naphtha (petroleum), light aromatic)
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None
Excepted quantities	E1
Limited quantity	10L

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

1330-20-7	Xylene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Listed
98-82-8	Cumene	Listed
95-63-6	1, 2, 4-Trimethylbenzene	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

1330-20-7	Xylene	Listed
98-82-8	Cumene	Listed

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95-63-6	1, 2, 4-Trimethylbenzene	Listed

CERCLA:

1330-20-7	Xylene	Listed	100
98-82-8	Cumene	Listed	5000

RCRA:

1330-20-7	Xylene	Listed	
98-82-8	Cumene	Listed	

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

1330-20-7	**Xylene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
95-63-6	**1, 2, 4-Trimethylbenzene	Listed
98-82-8	**Cumene	Listed

New Jersey Right to Know:

1330-20-7	**Xylene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
95-63-6	**1, 2, 4-Trimethylbenzene	Listed
98-82-8	**Cumene	Listed

New York Right to Know:

1330-20-7	**Xylene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
95-63-6	**1, 2, 4-Trimethylbenzene	Listed
98-82-8	**Cumene	Listed

Pennsylvania Right to Know:

1330-20-7	**Xylene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
95-63-6	**1, 2, 4-Trimethylbenzene	Listed
98-82-8	**Cumene	Listed

California Proposition 65:

⚠**WARNING**: This product can expose you to Cumene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-2-0

Solvent

HMIS: 2-2-0
Initial preparation date: 12.22.2016

End of Safety Data Sheet