

1. Identification

Product identifier	METHYL PARA-TOLUATE
Other means of identification	Not available.
Synonym(s)	MPT; 4-Methyl Benzoic Acid, Methyl Ester; Para Toluic Acid, Methyl Ester.
Recommended use	Process intermediate.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer	
Company Information	INVISTA S.à r.l. INVISTA Building 4123 East 37th Street North Wichita, KS 67220
Emergency telephone:	CHEMTREC: 1-800-424-9300 Outside U.S. +1-703-527-3887
General Information	Product Information: 1-877-446-8478 Outside the U.S.: +1-770-792-4221
e-mail	msds@invista.com

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Specific target organ toxicity, single exposure Category 3 respiratory tract irritation
OSHA defined hazards	Not classified.
Label elements	



Signal word	Warning
Hazard statement	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Prevention	Avoid breathing dust/fume. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye/face protection.
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Not classified.
Supplemental information	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
METHYL-P-TOLUATE		99-75-2	>99%

4. First-aid measures

Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If the affected person is not breathing, apply artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Consult a physician.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists get medical attention.
Ingestion	If swallowed, do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a physician.
Most important symptoms/effects, acute and delayed	<p>Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Direct contact with eyes may cause temporary irritation.</p> <p>Skin: Symptoms may include redness, drying of skin, itching and pain.</p> <p>Inhalation: Inhalation of vapors/fumes causes respiratory irritation with throat discomfort, coughing or difficulty breathing.</p> <p>Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.</p>
Indication of immediate medical attention and special treatment needed	Treat symptomatically. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemical, CO ₂ , water spray or regular foam. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Irritating and toxic gases or fumes may be released during a fire. Vapors may form explosive mixtures with air. This product can react explosively at high temperatures or pressure.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire-fighting equipment/instructions	In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Stay upwind. Ventilate closed spaces before entering. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.
Methods and materials for containment and cleaning up	<p>Prevent entry into waterways, sewers, basements or confined areas.</p> <p>Large Spills: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Sweep up and shovel into suitable containers for disposal. Avoid dispersal of dust in air. Prevent entry into waterways, sewer, basements or confined areas.</p> <p>Small Spills: Sweep up or gather material and place in appropriate container for disposal. Following product recovery, flush area with water. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.</p>
Environmental precautions	Do not flush into surface water or sanitary sewer system.

7. Handling and storage

Precautions for safe handling	Use care in handling/storage. Do not get in eyes, on skin, on clothing. Wash hands thoroughly after handling. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.
Conditions for safe storage, including any incompatibilities	Do not handle or store near an open flame, heat or other sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

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

Appropriate engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels. Attempts should be made to eliminate all contact with skin and eyes, and to limit inhalation exposure.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear chemical goggles.
Hand protection	Wear protective gloves.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Crystalline.
Physical state	Solid.
Form	Crystalline.
Color	Off-white.
Odor	Ester-like.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	86 - 91.4 °F (30 - 33 °C) / 91.76 °F (33.2 °C)
Initial boiling point and boiling range	429.8 - 431.6 °F (221 - 222 °C)
Flash point	190 °F (88 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	1 mm Hg @ 50°C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Negligible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.07 g/cm ³ @ 15°C
Molecular formula	C ₉ H ₁₀ O ₂
Molecular weight	150.18

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Not expected to occur.

Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Based on available data, the classification criteria are not met.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Irritating to skin.
Eye contact	Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
	Skin: Symptoms may include redness, edema, drying, defatting and cracking of the skin.
	Inhalation: Inhalation of vapors/fumes causes respiratory irritation with throat discomfort, coughing or difficulty breathing.
	Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhea.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
METHYL PARA-TOLUATE		
Acute		
<i>Dermal</i>		
LD50	Rat	5000 mg/kg
<i>Oral</i>		
LD50	Rat	3300 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes eye irritation.	
Respiratory sensitization	Due to lack of data the classification is not possible.	
Skin sensitization	Due to lack of data the classification is not possible.	
Germ cell mutagenicity	Due to lack of data the classification is not possible.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Reproductive toxicity	Due to lack of data the classification is not possible.	
Specific target organ toxicity - single exposure	Respiratory tract irritation.	
Specific target organ toxicity - repeated exposure	Due to lack of data the classification is not possible.	
Aspiration hazard	Due to lack of data the classification is not possible.	
Chronic effects	None known.	

12. Ecological information

Ecotoxicity	This material is not expected to be harmful to aquatic life. Prevent entry into waterways, sewers, basements or confined areas.
Persistence and degradability	Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.
Bioaccumulative potential	Bioaccumulation is unlikely.
Mobility in soil	None known.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information**DOT**

UN number	NA1993
UN proper shipping name	Combustible liquid, n.o.s. (METHYL PARA-TOLUATE)
Transport hazard class(es)	Comb liq
Subsidiary class(es)	None
Packing group	III
Labels required	None
Special provisions	IB3, T1, T4, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	241

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

General information

Not regulated when transported in non-bulk quantity.

The listed transportation classification does not address regulatory variations due to changes in packaging, mode of shipment or other regulatory descriptors. The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

15. Regulatory information**US federal regulations**

This product is listed on the U.S. EPA TSCA Inventory.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No

16. Other information, including date of preparation or last revision

Issue date	October-23-2013
Revision date	23-Oct-2013
Version #	1.0
Further information	Not available.
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 2 Instability: 0

Disclaimer

This Material Safety Data Sheet ("MSDS") contains selected information about a specific INVISTA product or group of products. It relates only to the identified product and any identified uses and is based on information available as of the date hereof. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. THIS MSDS WAS PREPARED PURSUANT TO GOVERNMENT REGULATIONS THAT IDENTIFY SPECIFIC TYPES OF INFORMATION TO BE PROVIDED HEREIN. IT IS THEREFORE NOT INTENDED AS, AND DOES NOT CONTAIN, A COMPLETE STATEMENT OF, AND DOES NOT CONSTITUTE A REPRESENTATION, WARRANTY OR GUARANTY WITH REGARD TO, A PRODUCT'S CHARACTERISTICS, USES, QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR THE SUITABILITY, SAFETY, EFFICACY, HAZARDS OR HEALTH EFFECTS OF THE PRODUCT, WHETHER USED SINGULARLY OR IN COMBINATION WITH ANY OTHER PRODUCT, EXCEPT TO THE EXTENT REQUIRED BY THE RELEVANT LAW AND REGULATIONS. Purchasers and users of the product are responsible for determining that the product is suitable for the intended use and that their workers and the general public are advised of any risks resulting from such use. Nothing contained in this MSDS shall be construed to modify any of the commercial terms pursuant to which the product was sold by INVISTA including, but not limited to, terms and conditions addressing each party's respective rights and obligations with regard to warranties, remedies and indemnification.

Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of the MSDS, and any supplementary MSDS or written warnings that they may receive from INVISTA from time-to-time. In addition, if purchasers and users believe or have reason to believe that the MSDS or other information provided to them by INVISTA is inaccurate or in any way insufficient for any purpose, they should immediately notify INVISTA of the same, and of the basis for their belief (for example, studies, data, reports of incidents, etc.) so that INVISTA can determine whether modification or supplementation of the MSDS, or other measures, are appropriate. Failure of purchasers and users to timely provide such notice shall be deemed a waiver by purchasers and users of any and all claims, demands or causes of action, including causes of action based on an alleged failure to warn, for personal injury or damage to the environment or property arising from or attributable to the use of product.

This disclaimer shall be effective to the extent allowed by law. Should any provision be deemed to be ineffective or unenforceable, that provision shall be deemed severed from the disclaimer and the remaining provisions shall continue to have full force and effect.

Revision Information

This document has undergone significant changes and should be reviewed in its entirety.