



Xylene

Safety Data Sheet

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Section 1: Identification

1.1. Product Identifier

Product form : Mixture
Product Identifier(s) : Xylene
Other means of identification : Xylenes
Xylenes - Mixed Isomers
Xylenes-Ethylbenzene Mixture
Xylene-Ethylbenzene Mixture

1.2. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Industrial use resulting in manufacture of another substance (use of intermediates)
Solvent
Fuel

1.3. Details of the supplier of the safety data sheet

Total Petrochemicals & Refining USA, Inc.
P O Box 674411
Houston, TX 77267-4411

For non-emergency product information:

Phone: 713-483-5000

Email: product.stewardship@total.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languages)
Total Petrochemicals & Refining USA, Inc.: 1-800-322-3462 (Language: English only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flammable liquids Category 3
Skin corrosion/Irritation Category 2
Carcinogenicity Category 2
Reproductive toxicity Category 2
Specific target organ toxicity (single exposure) Category 3 - Narcotic effects
Specific target organ toxicity (single exposure) Category 3 - Respiratory irritation
Specific target organ toxicity (single exposure) Category 1
Specific target organ toxicity (repeated exposure) Category 1
Specific target organ toxicity (repeated exposure) Category 2
Aspiration hazard Category 1

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: **Danger**

Hazard statements (GHS-US)

: **Flammable liquid and vapor**
May be fatal if swallowed and enters airways
Causes skin irritation
May cause respiratory irritation
May cause drowsiness or dizziness
Suspected of causing cancer (inhalation)
Suspected of damaging fertility or the unborn child
Causes damage to organs (lung) (Inhalation, oral)
Causes damage to organs (nervous system) through prolonged or repeated exposure

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Precautionary statements (GHS-US)

(Inhalation)

May cause damage to organs (kidneys, hearing organ (loss of hearing)) through prolonged or repeated exposure

: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical, lighting, ventilating equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe gas, mist, vapors.

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear eye protection, protective clothing, protective gloves.

If swallowed: immediately call doctor, poison center.

Do NOT induce vomiting.

If on skin: Wash with plenty of water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see Section 4.1 of SDS or information on this label).

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash before reuse.

In case of fire: Use carbon dioxide (CO2), dry chemical, foam, Water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3. Hazards not otherwise classified

Other hazards not contributing to the classification

: Product can accumulate electrostatic charges that may cause fire by electrical discharges.

2.4. Unknown acute toxicity (GHS-US)

Not applicable

2.5. Additional information

No additional information available

Section 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	CAS No	%
Xylenes (o-, m-, p- isomers)	1330-20-7	>= 80
Ethylbenzene	100-41-4	<= 20
Toluene	108-88-3	<= 0.5

Section 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.

First-aid measures after skin contact

: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

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4.2. Most Important symptoms and effects, both acute and delayed

Symptoms/injuries	: Suspected of damaging fertility or the unborn child. Causes damage to organs.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the chemical

Fire hazard	: Flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Emergency procedures for non-emergency personnel	: Evacuate unnecessary personnel.
Emergency procedures for emergency responders	: Ventilate area.

6.2. Methods and material for containment and cleaning up

For containment	: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Do not contaminate ground and surface water.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.3. Reference to other sections

See section 8. Exposure controls/personal protection.

Section 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No bare lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing vapors, mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Explosion-proof apparatus have to be used. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. All efforts should be made to prevent any leaks or spills. Storage tanks should be engineered to prevent contact with water resources, as this material could contaminate the water resources. Surface spills can reach groundwater through porous soil or cracked surfaces. The storage tanks should be monitored regularly for leaks. Where spills or leaks are possible, a comprehensive response plan should be developed and implemented.
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Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, flames, sparks, heat sources. Keep container tightly closed.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Section 8: Exposure controls/personal protection

8.1. Occupational Exposure Limits

Ethylbenzene (100-41-4)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Toluene (108-88-3)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
USA OSHA	Remark (OSHA)	See OSHA Table Z-2.
Xylenes (o-, m-, p- isomers) (1330-20-7)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear Protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

Other information : Do not eat, drink or smoke during use.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Color : Colorless.

Odor : Sweet. Aromatic.

Odor threshold : 0.7 - 40 ppm

pH : Not applicable

Relative evaporation rate (butyl acetate=1) : No data available

Relative evaporation rate (ether=1) : 9

Melting point : No data available

Freezing point : -47 °C

Boiling point : 139 °C

Flash point : 25 °C Closed cup

Auto-ignition temperature : 500 - 550 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : 8 mm Hg @ 25°C

Relative vapor density at 20 °C : 3 - 4 Air = 1

Relative density : 0.86

Specific gravity / density : 0.87 g/ml @ 20°C

Solubility : Water: Negligible.

Log Kow : 3.1

Viscosity, kinematic : < 20 cSt

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Viscosity, dynamic : 0.6 cP @25°C

Explosive limits : 1 - 7 vol %

9.2. Other Information

VOC content : 100 %

Section 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous polymerization will not occur. Violent explosion may occur when chlorinating xylene with 1,3-dichloro-5,5-dimethyl-2, 4-imidazolidindione (dichlorohydrantoin). The haloimide undergoes immediate self accelerating decomposition.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid the build-up of electrostatic charge.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation. Ingestion. Skin and eye contact.

Acute toxicity : Not classified
Inhalation at very high concentrations can be fatal.
Intentional misuse involving repeated and prolonged inhalation exposure to high concentrations of vapor can result in central nervous system damage and eventually death.

Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15354 mg/kg
LC50 Inhalation rat	17.2 mg/l/4h
Toluene (108-88-3)	
LD50 oral rat	636 (636 - 7530) mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat	12.5 (12.5 - 49) mg/l/4h
LC50 inhalation rat (ppm)	> 26700 ppm/1h
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	>= 4200 mg/kg
LC50 inhalation rat	21.7 mg/l/4h as a vapor
Additional information	For xylene: LC50 Subcutaneous (Rat): 1700 mg/kg used for basis of Acute Toxicity (Dermal) classification (Ref: Raw Material Data Handbook, Vol.1: Organic Solvents, 1974)

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer (inhalation).

Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

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Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs (lung) (inhalation, oral).
Specific target organ toxicity (repeated exposure)	: Causes damage to organs (nervous system) through prolonged or repeated exposure (inhalation). May cause damage to organs (kidneys, hearing organ (loss of hearing)) through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: Harmful in contact with skin. Harmful if inhaled.

Section 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Ethylbenzene (100-41-4)	
LC50 fish 1	11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	4.6 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 other aquatic organisms 2	> 438 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
Toluene (108-88-3)	
LC50 fish 1	15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 1	> 433 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 2	12.5 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LC50 fish 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	2.661 - 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)

12.2. Persistence and degradability

Xylene	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Xylene	
Log Kow	3.1
Bioaccumulative potential	Not established.
Ethylbenzene (100-41-4)	
BCF fish 1	15
Log Pow	3.118
Toluene (108-88-3)	
Log Pow	2.65
Xylenes (o-, m-, p- isomers) (1330-20-7)	
BCF fish 1	0.6 - 15
Log Pow	2.77 - 3.15

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents and container in accordance with all local, regional, national and international regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

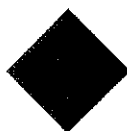
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Section 14: Transport information

US Transport (DOT) for Bulk Shipments (Non-Bulk Shipments May Differ)

Transport document description : UN1993, Flammable liquids, n.o.s. (contains xylene isomers, ethylbenzene), 3, PGIII
UN or NA Number : UN1993
Proper Shipping Name : Flammable liquids, n.o.s.
(contains xylene isomers, ethylbenzene)
Primary Hazard Class : 3 - Flammable liquid
Packing Group : PGIII
Reportable Quantities (RQ)* : Ethylbenzene 1000 lbs (454 kg), Mixed Xylenes 100 lbs (45.4 kg), Toluene 1000 lbs (454 kg)
*It is the shipper's responsibility to determine whether an RQ must be reported for each individual shipment.
Hazard labels :



Emergency Response Guide (ERG) Number : 128

Transport by sea (IMDG)

Transport document description : UN1993, FLAMMABLE LIQUID, N.O.S., 3, PGIII
UN Number : UN1993
Proper Shipping Name : Flammable liquid, n.o.s.
Primary Hazard Class : 3 - Flammable liquids
Packing Group : PGIII
Hazard labels (IMDG) :



Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Product Name: Xylenes/Ethylbenzene (10% or more) mixture
Pollution Category: Y
Ship Type: 2

Cargo name listed in 46 CFR 30.25, Table 30.25-1 : Xylenes/Ethylbenzene (10% or more) mixture

Cargo name listed in 46 CFR 153, Table 1 : Xylenes, Ethylbenzene (10% or more) mixture

Air transport (IATA)

Transport document description : UN1993, Flammable liquid, n.o.s., 3, PGIII
UN Number : UN1993
Proper Shipping Name : Flammable liquid, n.o.s.
Primary Hazard Class : 3 - Flammable Liquids
Packing Group : PGIII
Hazard labels (IATA) :



Section 15: Regulatory information

15.1. US Federal regulations

Xylene

TSCA

All components of this product are listed or exempted from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

SARA 313

This product contains chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372

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SARA 313 Components:

Ethylbenzene	CAS No.: 100-41-4	Conc: <= 20%
Xylenes (o-, m-, p- isomers)	CAS No.: 1330-20-7	Conc: >= 80%

SARA Section 311/312 Hazard Classes

Fire hazard
Chronic health hazard
Acute health hazard

15.2. International regulations

CANADA

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WHMIS Classification

Class B Division 2 - Flammable Liquid
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

National inventories

Listed on the Canadian DSL (Domestic Substances List)

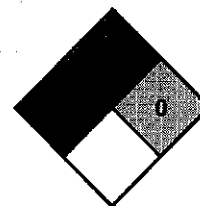
15.3. US State regulations

Ethylbenzene (100-41-4)	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
No significance risk level (NSRL)	54 µg/day (inhalation)
Toluene (108-88-3)	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No

Section 16: Other information

NFPA (National Fire Protection Association)

NFPA health hazard : 2
NFPA fire hazard : 3
NFPA reactivity : 0



HMIS III Rating

Health : 2*
Flammability : 3
Physical Hazard : 0
Personal Protection : See section 8 of SDS

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US OSHA LABEL as specified under 29 CFR §1910.1200 (f)

Xylene

Total Petrochemicals & Refining USA, Inc.
PO Box 674411
Houston, TX 77267-4411 USA
Tel. 713-483-5000 or 1-877-871-2709



Danger

Flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
May cause respiratory irritation
May cause drowsiness or dizziness
Suspected of causing cancer (Inhalation)
Suspected of damaging fertility or the unborn child
Causes damage to organs (lung) (Inhalation, oral)
Causes damage to organs (nervous system) through prolonged or repeated exposure (Inhalation)
May cause damage to organs (kidneys, hearing organ (loss of hearing)) through prolonged or repeated exposure

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical, lighting, ventilating equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe gas, mist, vapors.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear eye protection, protective clothing, protective gloves.
If swallowed: Immediately call doctor, poison center.
Do NOT induce vomiting.
If on skin: Wash with plenty of water.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Specific treatment (see Section 4.1 of SDS or information on this label).
If exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Take off contaminated clothing and wash before reuse.
In case of fire: Use carbon dioxide (CO₂), dry chemical, foam, Water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental Information: Other hazards not contributing to the classification

Product can accumulate electrostatic charges that may cause fire by electrical discharges.

Version : 1.0

Date of Issue : April 28, 2015

MSDS ID: XYLENE
SDS REFERENCE NUMBER: BC0012

SDS Template - TOTAL SDS US (GHS HazCom 2012) TPRI Version 3.01

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