

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 10/27/2014

Version 1.1

SECTION 1. Identification

Product identifier

Product number TX0737

Chromatography OmniSolv®

CAS-No. 108-88-3

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Reagent for analysis

Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

SECTION 2. Hazards identification

GHS Classification

Flammable liquid, Category 2, H225

Skin irritation, Category 2, H315

Reproductive toxicity, Category 2, H361

Specific target organ systemic toxicity - single exposure, Category 3, Central nervous system, H336 Specific target organ systemic toxicity - repeated exposure, Category 2, Central nervous system, H373

Aspiration hazard, Category 1, H304

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms







Signal Word
Danger

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number TX0737 Version 1.1

Product name Toluene For HPLC, Spectrophotometry

Toluene For HPLC, Spectrophotometry

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Hazard Statements

- H225 Highly flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

Precautionary Statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- 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.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P331 Do NOT induce vomiting.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- 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 an approved waste disposal plant.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Formula C₆H₅CH₃ C₇H₈ (Hill)

Molar mass 92.14 g/mol

Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

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Toluene For HPLC, Spectrophotometry <br

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toluene (>= 90 % - <= 100 %)

108-88-3

Exact percentages are being wihtheld as a trade secret.

SECTION 4. First aid measures

Description of first-aid measures

Inhalation

After inhalation: fresh air. Consult a physician.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing. Consult a

physician.

Eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist.

Ingestion

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

irritant effects, respiratory paralysis, respiratory arrest, Drowsiness, Dizziness,

Unconsciousness, inebriation, Nausea, Vomiting, Circulatory collapse, Headache, Convulsions,

drowziness, CNS disorders, death

Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at ambient temperatures.

Pay attention to flashback.

Development of hazardous combustion gases or vapors possible in the event of fire.

Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Cool closed containers exposed to fire with water spray.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Keep away from heat and sources of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions

Do not empty into drains. Risk of explosion.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

SECTION 7. Handling and storage

Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols.

Observe label precautions.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Store at room temperature.

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br/>and Gas Chromatography

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SECTION 8. Exposure controls/personal protection

Exposure limit(s)

Ingredients

Basis Value Threshold Remarks

limits

toluene 108-88-3

ACGIH Time Weighted Average 20 ppm

(TWA):

NIOSH/GUIDE Recommended 100 ppm

exposure limit (REL): 375 mg/m³

Short Term Exposure 150 ppm Limit (STEL): 560 mg/m³

Z1A Time Weighted Average

(TWA):

100 ppm 375 mg/m³

Short Term Exposure Limit (STEL):

150 ppm 560 mg/m³

OSHA/Z2 Ceiling Limit Value:

300 ppm

Time Weighted Average

200 ppm

(TWA):

ximum 500 ppm

concentration:

Ceiling Limit Value 10 minutes

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection

Safety glasses

Hand 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.

Other protective equipment:

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapors/aerosols are generated.

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.

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SECTION 9. Physical and chemical properties

Physical state liquid

Color colorless

Odor characteristic

Odor Threshold 0.2 - 68.6 ppm

pH Not applicable

Melting point -95 °C

Boiling point/boiling range 231.1 °F (110.6 °C)

at 1,013 hPa

Flash point 39 °F (4 °C)

at 1,013 hPa

Method: c.c.

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit 1.1 %(V)

Upper explosion limit 7.1 %(V)

Vapor pressure 29 hPa

at 68 °F (20 °C)

Relative vapor density 3.18

Density 0.87 g/cm³

at 68 °F (20 °C)

Relative density No information available.

Water solubility 0.52 g/l

at 68 °F (20 °C)

Partition coefficient: n-

octanol/water

log Pow: 2.65 (experimental)

(IUCLID) Bioaccumulation is not expected.

Autoignition temperature No information available.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

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obr/>and Gas Chromatography

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Decomposition temperature Distillable in an undecomposed state at normal pressure.

Viscosity, dynamic 0.6 mPa.s

at 68 °F (20 °C)

Explosive properties Not classified as explosive.

Oxidizing properties none

Ignition temperature 995 °F (535 °C)

Method: DIN 51794

Viscosity, kinematic 0.7 mm²/s

at 68 °F (20 °C)

Conductivity < 0.01 µS/cm

SECTION 10. Stability and reactivity

Reactivity

Vapors may form explosive mixture with air.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

Risk of explosion with:

fuming sulfuric acid, Nitric acid, silver, perchlorates, nitrogen dioxide, nonmetallic halides, acetic acid, halogen-halogen compounds, uranium hexafluoride, organic nitro compounds

Violent reactions possible with:

Strong acids, Strong oxidizing agents

sulfur, with, Heat.

Conditions to avoid

Warming.

Incompatible materials

rubber, various plastics

Hazardous decomposition products

no information available

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure

Inhalation, Eye contact, Skin contact

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

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Target Organs

Eyes Skin

Respiratory system Central nervous system

Liver Kidneys

Acute oral toxicity

Symptoms: Nausea, Vomiting

Acute inhalation toxicity LC50 Rat: 25.7 mg/l; 4 h OECD Test Guideline 403

absorption

Symptoms: Irritation symptoms in the respiratory tract.

Acute dermal toxicity

absorption

Skin irritation

Rabbit

Result: irritating

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Causes skin irritation.

Eye irritation Rabbit

Result: No eye irritation

(ECHA)

Genotoxicity in vivo

Chromosome aberration test

Rat

Result: negative

(ECHA)

Genotoxicity in vitro

In vitro mammalian cell gene mutation test

MOUSE LYMPHOMA TEST

Result: negative

Method: OECD Test Guideline 476

Ames test Result: negative

(Lit.)

CMR effects
Teratogenicity:

Suspected of damaging the unborn child.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

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Specific target organ systemic toxicity - single exposure

Target Organs: Central nervous system May cause drowsiness or dizziness.

Specific target organ systemic toxicity - repeated exposure

Target Organs: Central nervous system

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration hazard, Aspiration may cause pulmonary edema and pneumonitis.

Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

Further information

Systemic effects:

After absorption of large quantities:

CNS disorders, inebriation, Convulsions, Unconsciousness, Headache, Dizziness, Circulatory collapse, respiratory paralysis, respiratory arrest, death

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

Ecotoxicity

Toxicity to fish

LC50 Oncorhynchus mykiss (rainbow trout): 5.8 mg/l; 96 h (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 6 mg/l; 48 h (ECOTOX Database)

NOEC E.sulcatum: 456 mg/l; 72 h (IUCLID)

Toxicity to algae

IC50 Pseudokirchneriella subcapitata (green algae): 12 mg/l; 72 h (Lit.)

Toxicity to bacteria

EC50 Photobacterium phosphoreum: 20 mg/l; 30 min (Lit.)

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

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Persistence and degradability

Theoretical oxygen demand (ThOD)

3,130 mg/g (Lit.)

Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: 2.65 (experimental)

(IUCLID) Bioaccumulation is not expected.

Mobility in soil

Distribution among environmental compartments

Adsorption/Soil log Koc: 2.15 (experimental)

Moderately mobile in soils (Lit.)

Other adverse effects

Henry constant 683 Pa*m³/mol

(Lit.) Distribution preferentially in air.

Additional ecological information

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

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

Land transport (DOT)

UN 1294
Proper shipping name TOLUENE

Class 3
Packing group II
Environmentally hazardous ---

Air transport (IATA)

UN 1294
Proper shipping name TOLUENE

Class 3
Packing group II
Environmentally hazardous --

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Special precautions for user no

Sea transport (IMDG)

UN number UN 1294 Proper shipping name TOLUENE

Class 3
Packing group II
Environmentally hazardous -Special precautions for user
EmS yes
F-E S-D

SECTION 15. Regulatory information

United States of America

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients

toluene 108-88-3 100 %

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Ingredients

toluene

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Ingredients toluene

DEA List I

Not listed

DEA List II

Listed Ingredients

toluene 108-88-3

US State Regulations

Massachusetts Right To Know

Ingredients toluene

Pennsylvania Right To Know

Ingredients toluene

New Jersey Right To Know

Ingredients

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

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br/>and Gas Chromatography

OmniSolv®

toluene

California Prop 65 Components

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Ingredients toluene

Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Labeling

Hazard pictograms







Signal Word
Danger

Hazard Statements

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

Precautionary Statements

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P314 Get medical advice/ attention if you feel unwell.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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OmniSolv®

Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated

exposure.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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