Safety Data Sheet

MP-Cresol 45

Version 1.04 Revision Date 09.03.2026

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name MP-Cresol 45

Synonyms MP45, Cresol/Phenol/Xylenol mixture, meta para cresol 45

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

Use Solvent. Raw material for cleansing agents and disinfectants. Raw material for washing and cleaning agents. Raw material for synthesis processes in the chemical industry. Production of laminates.

Manufacturer or supplier's details

Company Sasol Chemicals, a division of Sasol South Africa Ltd

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SECTION 2. Hazards identification

Classification of the substance or mixture

GHS Classification

	Notification of the ministry of industry on the system of classification and hazard communication of hazardous substances B.E. 2555 (GHS 2009)	
Classification	Acute oral toxicity	Category 3
	Acute dermal toxicity	Category 3

Skin corrosion	Category 1B
Serious eye damage	Category 1
Acute inhalation toxicity	Category 4
Long-term (chronic) aquatic hazard	Category 3
Short-term (acute) aquatic hazard	Category 2

GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H301 + H311 Toxic if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash the contact area thoroughly after handling.
P273 Avoid release to the environment.

Response:
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P391 Collect spillage.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

HAZARDOUS INGREDIENTS

p-Cresol

Contents: >= 30.00 - < 50.00 %W/W

CAS-No. 106-44-5 **Index-No.** 604-004-00-9 **EC-No.** 203-398-6
Hazard Statements *H301 H311 H314*

m-cresol

Contents: >= 30.00 - < 50.00 %W/W

CAS-No. 108-39-4 **Index-No.** 604-004-00-9 **EC-No.** 203-577-9
Hazard Statements *H301 H311 H314*

2,4-Xylenol; Xylenol

Contents: >= 5.00 - < 10.00 %W/W

CAS-No. 105-67-9 **Index-No.** 604-006-00-X **EC-No.** 203-321-6
Hazard Statements *H301 H311 H314 H411*

2-ethylphenol

Contents: >= 1.00 - < 5.00 %W/W

CAS-No. 90-00-6 **Index-No.** **EC-No.** 201-958-4

2,5-xylenol; xylenol

Contents: >= 1.00 - < 5.00 %W/W

CAS-No. 95-87-4 **Index-No.** 604-006-00-X **EC-No.** 202-461-5
Hazard Statements *H301 H311 H314 H411*

2,6-xylenol

Contents: >= 1.00 - < 5.00 %W/W

CAS-No. 576-26-1 **Index-No.** 604-006-00-X **EC-No.** 209-400-1
Hazard Statements *H301 H314 H311 H411*

naphthalene

Contents: >= 1.00 - < 5.00 %W/W

CAS-No. 91-20-3 **Index-No.** 601-052-00-2 **EC-No.** 202-049-5
Hazard Statements *H302 H351 H410*

benzonitrile

Contents: >= 1.00 - < 5.00 %W/W

CAS-No. 100-47-0 **Index-No.** 608-012-00-3 **EC-No.** 202-855-7
Hazard Statements *H302 H312*

o-cresol

Contents: >= 0.10 - < 1.00 %W/W

CAS-No. 95-48-7 **Index-No.** 604-004-00-9 **EC-No.** 202-423-8
Hazard Statements *H301 H311 H314 H412*

SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Rapid skin decontamination is critical. Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Apply PEG/EtOH solution liberally to affected area. Allow to remain 15 to 30 seconds, then wash with water. Continue cycle of water and PEG/EtOH solution for at least 15 minutes. (PEG/EtOH solution consists of 2 parts polyethylene glycol 400 to 1 part ethanol. For external use only.) Wash off with soap and water. Wash contaminated clothing before re-use. Call a physician immediately.
Eye contact	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Danger of very serious irreversible effects
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Dry chemical Alcohol-resistant foam Water spray Aqueous film forming foam (AFFF).
Unsuitable extinguishing media	Do NOT use water jet.
Special hazards arising from the substance or mixture	Do not use a solid water stream as it may scatter and spread fire.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Do not breathe vapors or spray mist.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Hose down gases, fumes and/or dust with water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. The material taken up must be disposed of in accordance with regulations.
Reference to other sections	Refer to Section 8 and 13

SECTION 7. Handling and storage

Safe handling advice	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Avoid ingestion. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Ensure adequate ventilation.
Advice on protection against fire and explosion	No data available
Requirements for storage areas and containers	Keep locked up.Keep containers tightly closed in a dry, cool and well-ventilated place.Keep away from sources of ignition - No smoking.
Advice on common storage	No data available

SECTION 8. Exposure controls/personal protection

Ingredients with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

phenol	TWA	5 ppm	2017-08-03	Thailand. Occupational Exposure Limits

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Solvent-resistant gloves
Eye protection	Full face-shield. Goggles
Skin and body protection	Protective suit Safety shoes
Hygiene measures	Wash hands before breaks and immediately after handling the

product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	liquid
State of matter	liquid; at 20 °C; 1,013 hPa
Color	light yellow
Odor	characteristic
Odor Threshold	No data available.
pH	No data available
Melting point/ range	No data available
Boiling point/boiling range	197.1 - 199.4 °C; 101.3 kPa
Flash point	96 °C; closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Autoignition temperature	No data available
Decomposition Temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Density	1.03 g/cm3; 20 °C
Water solubility	partly miscible
Partition coefficient: n-octanol/water	No data available
Viscosity, kinematic	17.02 mm2/s; 20 °C

SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous	Exposure to strong oxidizers can result in exothermic reactions and

reactions	potentially hazardous by-product.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Oxidizers.
Hazardous decomposition products	Thermal decomposition can lead to release of vapours.Carbon dioxide (CO2)Carbon monoxide

SECTION 11. Toxicological information

Acute inhalation toxicity	m-cresol: study scientifically unjustified
Acute inhalation toxicity	2,4-Xylenol; Xylenol: study scientifically unjustified, Negligible or unlikely exposure pathways, corrosive effects
Acute inhalation toxicity	2,5-xylenol; xylenol: study scientifically unjustified, corrosive effects, Negligible or unlikely exposure pathways
Acute inhalation toxicity	2,6-xylenol: study scientifically unjustified
Acute inhalation toxicity	naphthalene: LC0 Rat: vapor; > 0.4 mg/l; OECD Test Guideline 403; Information taken from reference works and the literature.
Acute inhalation toxicity	o-cresol: No data available
Skin irritation	p-Cresol: Rabbit: Causes burns.; 72 h; Information taken from reference works and the literature.
Skin irritation	m-cresol: Rabbit: Causes burns.; Information taken from reference works and the literature.
Skin irritation	2,4-Xylenol; Xylenol: Causes severe burns.; Derived from the classification according to Annex VI of Regulation (EC) 1272/2008
Skin irritation	2,5-xylenol; xylenol: Rabbit: Severe skin irritation; yes; Information taken from reference works and the literature.
Skin irritation	2,5-xylenol; xylenol: Rat: Severe skin irritation; yes; Information taken from reference works and the literature.
Skin irritation	2,6-xylenol: Rabbit: Causes burns.; OECD Test Guideline 404 24 h; Information taken from reference works and the literature.
Skin irritation	naphthalene: Rabbit: Slightly irritating; (literature value)

Skin irritation	o-cresol: Rabbit: Causes burns.; Information taken from reference works and the literature.
Eye irritation	p-Cresol: Rabbit: Risk of serious damage to eyes. Information taken from reference works and the literature.
Eye irritation	m-cresol: Rabbit: Risk of serious damage to eyes. Information taken from reference works and the literature.
Eye irritation	2,4-Xylenol; Xylenol: Irreversible effects on the eye Derived from the classification according to Annex VI of Regulation (EC) 1272/2008
Eye irritation	2-ethylphenol: Rabbit: Irreversible effects on the eye Information taken from reference works and the literature., Based on data from similar materials
Eye irritation	2,5-xylenol; xylenol: Rabbit: Irreversible effects on the eye yesInformation taken from reference works and the literature.
Eye irritation	2,5-xylenol; xylenol: Irreversible effects on the eye Derived from the classification according to Annex VI of Regulation (EC) 1272/2008
Eye irritation	2,6-xylenol: Rabbit: Irreversible effects on the eye OECD Test Guideline 405 Information taken from reference works and the literature.
Eye irritation	naphthalene: Rabbit: Slightly irritating (literature value)
Eye irritation	o-cresol: Rabbit: Risk of serious damage to eyes. Information taken from reference works and the literature.
Sensitization	p-Cresol: Draize Test; Guinea pig: Not a skin sensitizer.; Information taken from reference works and the literature.
Sensitization	m-cresol: No data available
Sensitization	2,4-Xylenol; Xylenol: Guinea pig: Causes sensitization.; OECD Test Guideline 406; Information taken from reference works and the literature.
Sensitization	2,5-xylenol; xylenol: Guinea pig: Causes sensitization.; OECD Test Guideline 406; GLP: yes; Information taken from reference works and the literature.
Sensitization	2,6-xylenol: Guinea pig: Not a skin sensitizer.; Information taken from reference works and the literature.

Sensitization	o-cresol: study scientifically unjustified, Information taken from reference works and the literature.
Repeated dose toxicity	p-Cresol: Oral Rat; OECD Test Guideline 408; Central nervous system; Tremors;
Repeated dose toxicity	m-cresol: Rat; Early embryonic development 50 - 150 mg/kgNo adverse effect has been observed in chronic toxicity tests.
Carcinogenicity	p-Cresol: Rat: male; Oral; 230; mg/kg bw/day; 720; mg/kg body weight; OECD Test Guideline 451; yes; Kidney; equivocal, Not classified, Based on data from similar materials, Information taken from reference works and the literature.Mouse: female; Oral; 300; mg/kg bw/day; 1,040; mg/kg body weight; OECD Test Guideline 451; yes; Not classified, Based on data from similar materials, Information taken from reference works and the literature.**Carcinogenicity**
Mutagenicity	p-Cresol: In vitro tests showed mutagenic effects which were not observed with in vivo test. In vivo tests did not show mutagenic effects;
Mutagenicity	m-cresol: In vitro tests showed mutagenic effects which were not observed with in vivo test. Information taken from reference works and the literature.;
Mutagenicity	2,4-Xylenol; Xylenol: Ames test: Salmonella typhimurium; with and without metabolic activation; negative; OECD Test Guideline 471; Information taken from reference works and the literature. In vivo tests did not show mutagenic effects;
Mutagenicity	2-ethylphenol:
Mutagenicity	2,5-xylenol; xylenol: Ames test: Salmonella typhimurium; with and without metabolic activation; negative; OECD Test Guideline 471; Information taken from reference works and the literature. In vivo tests did not show mutagenic effects;
Mutagenicity	2,6-xylenol: In vitro tests showed mutagenic effects which were not observed with in vivo test. In vivo tests did not show mutagenic effects;
Mutagenicity	naphthalene:

Mutagenicity	benzonitrile:
Mutagenicity	o-cresol: In vitro tests showed mutagenic effects which were not observed with in vivo test.Ames test: Salmonella typhimurium; with and without metabolic activation; Not mutagenic; OECD Test Guideline 471; Information taken from reference works and the literature.In vitro mammalian cell gene mutation test: mouse lymphoma cells; with and without metabolic activation; Not mutagenic; OECD Test Guideline 476; Information taken from reference works and the literature.Chromosome aberration test in vitro: Chinese hamster ovary cells; with and without metabolic activation; positive; OECD Test Guideline 473; Information taken from reference works and the literature. In vivo tests did not show mutagenic effects; dominant lethal test; Mouse male; Oral; OECD Test Guideline 478; Not mutagenic; Information taken from reference works and the literature.; Micronucleus test; Mouse male and female; Oral; Not mutagenic; Information taken from reference works and the literature.;
Toxicity for reproduction	m-cresol
Inhalation	Harmful by inhalation.

SECTION 12. Ecological information

Toxicity to bacteria	p-Cresol: static test; activated sludge of a predominantly domestic sewage; 2 h; EC50; 16.5 mg/l; OECD Test Guideline 209; ; Information taken from reference works and the literature.
Toxicity to bacteria	o-cresol: 2 h; EC75; 12.8 mg/l
Toxicity to fish	p-Cresol: flow through; Pimephales promelas (fathead minnow); ; 32 dNOEC; 1.35 mg/l; OECD Test Guideline 210; Information taken from reference works and the literature.
Chronic toxicity in aquatic invertebrates	p-Cresol: static test; Daphnia magna; ; mortality; 21 dNOEC; 1 mg/l; (literature value)
Chronic toxicity in aquatic invertebrates	o-cresol: Daphnia; ; 48 d5 - 21 mg/l
Toxicity for terrestrial flora	p-Cresol: Lactuca sativa (lettuce); Growth inhibition; 14 d; EC50; 233 mg/l; OECD Test Guideline 208; Information taken from reference works

and the literature.

Biodegradability p-Cresol:
aerobic; > 60 %; Readily biodegradable.; Category approach., Information taken from reference works and the literature.

Biodegradability o-cresol:
Inherently biodegradable.

Bioaccumulation p-Cresol:
Danio rerio (zebra fish); 10.7; OECD Test Guideline 305E; Bioaccumulation is unlikely., Information taken from reference works and the literature.

Bioaccumulation o-cresol:
Bioaccumulation is unlikely.

SECTION 13. Disposal considerations

Product Dispose of as special waste in compliance with local and national regulations.

Packaging Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram

ADR

UN number: 2076

Class: 6.1, (8)

Packaging group: II; TC1;

Proper shipping name: CRESOLS, LIQUID

RID

UN number: 2076

Class: 6.1, (8)

Packaging group: II; TC1

Proper shipping name: CRESOLS, LIQUID

IMDG

UN number:	2076
Class:	6.1, (8)
EmS:	F-A, S-B
Packaging group:	II
Proper shipping name:	CRESOLS, LIQUID
Marine pollutant	Not a Marine Pollutant
ICAO/IATA	
UN number :	2076
Class:	6.1, (8)
Packaging group:	II
Proper shipping name:	CRESOLS, LIQUID
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Cresol/Phenol/Xylenol mixture. POLLUTION CATEGORY: Y Ship Type: 2

SECTION 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canada. DSL - Domestic Substances List, part of CEPA	All chemical constituents are listed in: Canada. DSL - Domestic Substances List, part of CEPA (See chapter 3)
Australia. AICS - Australian Inventory of Chemical Substances	All chemical constituents are listed in: Australia. AICS - Australian Inventory of Chemical Substances (See chapter 3)
New Zealand Inventory of Chemical Substances	All chemical constituents are listed in: New Zealand Inventory of Chemical Substances (See chapter 3)
Japan. ENCS - Existing and New Chemical Substances Inventory	All chemical constituents are listed in: Japan. ENCS - Existing and New Chemical Substances Inventory (See chapter 3)
Japan. Industrial Safety and Health Law - Inventory	All chemical constituents are listed in: Japan. Industrial Safety and Health Law - Inventory (See chapter 3)
Korea. KECI - Korean Existing Chemicals	All chemical constituents are listed in: Korea. KECI - Korean Existing

Inventory	Chemicals Inventory (See chapter 3)
Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances	All chemical constituents are listed in: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances (See chapter 3)
China. IECSC - Inventory of Existing Chemical Substances in China	All chemical constituents are listed in: China. IECSC - Inventory of Existing Chemical Substances in China (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.
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