



Safety Data Sheet

MP-Cresol 45(P40)

Version 1.00

Revision Date 29.08.2018

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

Product identifier

Trade name

MP-Cresol 45(P40)

Synonyms

MP45(P40)

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

Use

Chemical intermediate Industrial use. Solvent mixture

Manufacturer or supplier's details

Company

Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd

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SECTION 2. Hazards identification

Classification of the substance or mixture

Japan. NITE GHS Classifications of Regulated Chemicals [Advisory]

Classification

Flammable liquids	Category 4
Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute inhalation toxicity	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 1
Specific target organ toxicity - single exposure	Category 1

Label elements

Pictogram



Signal word

Danger

Hazard statements

H227: Combustible liquid.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H331: Toxic if inhaled.
H314: Causes severe skin burns and eye damage.

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H318: Causes serious eye damage.
H340: May cause genetic defects.
H351: Suspected of causing cancer.
H360: May damage fertility or the unborn child.
H370: Causes damage to organs.
H372: Causes damage to organs through prolonged or repeated exposure.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Response

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/ doctor.
P304 + P312: IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P361: Take off immediately all contaminated clothing.



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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove.

Continue rinsing.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

Storage

P403: Store in a well-ventilated place.

P405: Store locked up.

Disposal

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

No data available

SECTION 3. Composition/information on ingredients

Mixture

Cresol

Contents: ≥ 45.00 - ≤ 60.00 %W/W

CAS-No. 1319-77-3

Index-No. 604-004-00-9

EC-No. 215-293-2

Hazard statements *H227 H301 H311 H331 H314 H318
H351 H370 H372 H401*

Phenol, carboic acid; monohydroxybenzene; phenyl alcohol

Contents: ≥ 35.00 - ≤ 45.00 %W/W

CAS-No. 108-95-2

Index-No. 604-001-00-2

EC-No. 203-632-7

Hazard statements *H301 H311 H331 H314 H318 H340
H351 H360 H370 H372 H401 H412*

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Xylenol

Contents: ≥ 2.00 - ≤ 20.00 %W/W

CAS-No. 1300-71-6

Index-No. 604-006-00-X

EC-No. 215-089-3

Hazard statements *H301 H311 H314 H411*

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

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



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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.
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 vapours 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



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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 vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment.

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

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
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PHENOL		19 mg/m ³	09 2015	Japan JSOH OELs
PHENOL		5 ppm	09 2015	Japan JSOH OELs
CRESOL (MIXED ISOMERS)	TLV	5 ppm	04 2001	Japan ISHL OELs
CRESOL (ALL ISOMERS)		22 mg/m ³	05 2012	Japan JSOH OELs
CRESOL (ALL ISOMERS)	TLV	5 ppm	05 2012	Japan JSOH OELs
CRESOL		5 ppm	10 2013	Japan ISHL OELs

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

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

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Form	Liquid
State of matter	Liquid; at 20 ° C; 101.3 kPa
Colour	Colourless light yellow
Odour	Phenol-like
Odour Threshold	No data available
Pour point	-38 ° C; 101.3 kPa
Boiling point/boiling range	186.3 - 208.7 ° C; 101.3 kPa
Flash point	84 ° C; closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Relative vapour density	No data available
Density	1.048 g/cm ³ ; 20 ° C
Viscosity, dynamic	6.18 mPa.s; 20 ° C

SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Oxidizing agents. Acids
Hazardous decomposition	Thermal decomposition can lead to release of irritating gases



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products

and vapours. Carbon dioxide (CO₂) Carbon monoxide

SECTION 11. Toxicological information

Acute oral toxicity	Cresol: LD50 Rat: 300 - 2,000 mg/kg; Liver ;
Acute oral toxicity	Cresol: Acute toxicity estimate : 100 mg/kg; Converted acute toxicity point estimate;
Acute oral toxicity	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: LD50 Rat: 340 - 540 mg/kg; (literature value)
Acute oral toxicity	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Acute toxicity estimate : 100 mg/kg; Converted acute toxicity point estimate;
Acute inhalation toxicity	Cresol: Rat: 4 h; vapour; 1.18 mg/l; Respiratory Tract;
Acute inhalation toxicity	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: LC50 Rat: 4 h; vapour; 316 mg/l; (literature value)
Acute dermal toxicity	Cresol: LD50 Rat: 2,000 mg/kg;
Acute dermal toxicity	Cresol: Acute toxicity estimate : 300 mg/kg; Converted acute toxicity point estimate;
Acute dermal toxicity	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: LD50 Rabbit: 850 mg/kg; (literature value)
Acute dermal toxicity	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol:



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Skin irritation

Acute toxicity estimate : 300 mg/kg; Converted acute toxicity point estimate;

Cresol:

Rabbit: Corrosive; Severe skin irritation Causes skin burns. (literature value)

Skin irritation

Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Causes burns.; (literature value)

Eye irritation

Cresol:

Causes severe eye burns., Severe eye irritant

Eye irritation

Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Causes burns. (literature value)

SECTION 12. Ecological information

Toxicity to fish

Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: semi-static test; *Poecilia reticulata*; 14 d; LC50; 21.93 mg/l; (literature value)

Toxicity to daphnia and other aquatic invertebrates

Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: static test; *Ceriodaphnia dubia* (water flea); 48 h; EC50; 3.1 mg/l(literature value)

Toxicity to algae

Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: *Pseudokirchneriella subcapitata* (green algae)96 h; EC50; 61.1 mg/l;

Toxicity to bacteria

Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: *Nitrosomonas* sp.; IC50; 21 mg/l



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Bioaccumulation	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Does not bioaccumulate.
Mobility in soil	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Not expected to adsorb on soil.
Results of PBT and vPvB assessment	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Other adverse effects	Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: No data available

SECTION 13. Disposal considerations

Product	Dispose of as special waste in compliance with local and national regulations.
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SECTION 14. Transport information

ADR

UN number:	2076
Class:	6.1, (8)
Packaging group:	II; TC1;

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Proper shipping name: CRESOLS, LIQUID
(Cresol)

RID

UN number: 2076

Class: 6.1, (8)

Packaging group: II; TC1

Proper shipping name: CRESOLS, LIQUID
(Cresol)

IMDG

UN number: 2076

Class: 6.1, (8)

EmS: F-A, S-B

Packaging group: II

Proper shipping name: CRESOLS, LIQUID
(Cresol)

Marine pollutant Marine pollutant

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ICAO/IATA

UN number : 2076

Class: 6.1, (8)

Packaging group: II

Proper shipping name: CRESOLS, LIQUID
(Cresol)

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)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)



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Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H227	Combustible liquid.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H340	May cause genetic defects.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



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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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