



CA44

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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

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<b>Trade name</b>	CA44	
<b>Synonyms</b>	Cresylic Acid	
<b>Use</b>	Intermediate, Solvent mixture, Synthesis of polymers	
<b>Company</b>	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)	
<b>Address</b>	1914 Haden Road, Houston, TX 77015-6498	
<b>Telephone</b>	CHEMTREC North America Transportation Emergency (24-hr)	(800) 424 9300
	CHEMTREC World Wide	(703) 527-3887
	Other Emergencies (24-hr)	(832) 783 6600
	SDS and Product Information (8:00am-4:30pm CST)	(832) 783 6400
	Health and Safety Information (7:30am-4:00pm CST)	(281) 588 3491
	NCEC - Europe, Israel, Africa, Americas	+44 (0) 2087 628 322
	NCEC - Middle East, Arabic African countries (where European languages are spoken)	+44 (0) 1235 239 670
	NCEC - Middle East/Africa (where Arabic is spoken)	+44 (0) 1235 239 671
	NCEC - Asia Pacific	+65 3158 1074
	NCEC - China	+86 10 5100 3039
	NCEC - Australia	+61 2801 44558
<b>E-mail address</b>	SasolElectronicSDS@us.sasol.com	

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**SECTION 2 HAZARDS IDENTIFICATION**

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<b>OSHA/GHS</b>	Flammable liquids	Category 4
<b>Hazards</b>	Acute toxicity (Oral)	Category 3
	Acute toxicity (Inhalation)	Category 4
	Acute toxicity (Dermal)	Category 3
	Skin corrosion	Category 1B
	Serious eye damage	Category 1
	Skin sensitisation	Category 1
	Specific target organ toxicity - repeated exposure	Category 2
	Acute aquatic toxicity	Category 2
	Chronic aquatic toxicity	Category 3

**LABEL ELEMENTS**

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## Hazard symbols



Signal word Danger

**Hazard statements**

H227 Combustible liquid.  
H301 + H311 Toxic if swallowed or in contact with skin.  
H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs (Central nervous system, Hematopoietic system, Kidney, Lungs) through prolonged or repeated exposure.  
H401 Toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.

**Response**

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P363 Wash contaminated clothing before reuse.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P391 Collect spillage.

**Storage** P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

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

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

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<b>Components</b>	<b>CAS-No.</b>	<b>Weight percent</b>
m-Cresol	108-39-4	20 - 40
3,5-Xylenol	108-68-9	20 - 40
p-Cresol	106-44-5	10 - 30
3,4-Xylenol	95-65-8	1 - 10
2,6-Xylenol	576-26-1	1 - 10
2,3-Xylenol	526-75-0	1 - 10
o-Ethylphenol	90-00-6	1 - 10
m-Ethylphenol	620-17-7	1 - 10
p-Ethylphenol	123-07-9	1 - 10
Trimethylphenol	26998-80-1	1 - 10

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

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**SECTION 4 FIRST AID MEASURES**

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- Eye contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
- Skin contact** Take off contaminated clothing and shoes immediately. If possible, quickly blot material from skin to avoid spreading it. Rapid skin decontamination is critical. Wash off immediately with plenty of water. Wash off with polyethylene glycol and afterwards 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 - 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. Obtain medical attention. Wash contaminated clothing before re-use.
- Inhalation** Remove to fresh air. Keep patient warm and at rest. Obtain medical attention. If breathing is irregular or stopped, administer artificial respiration. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). In case of shortness of breath, give oxygen.
- Ingestion** Call a physician or poison control centre immediately. Do NOT induce vomiting. Rinse mouth. Immediately give plenty of water (if possible charcoal slurry). Never give anything by mouth to an unconscious person.

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**SECTION 5 FIREFIGHTING MEASURES**

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**FLAMMABLE PROPERTIES**

**Fire/explosion** May be ignited by open flame. NFPA Class IIIA combustible liquid.

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<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide., Do NOT use water jet.
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Further information</b>	Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Keep containers and surroundings cool with water spray. In the event of fire and/or explosion do not breathe fumes. Avoid contact with runoff water

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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<b>Methods and materials for containment and cleaning up</b>	Evacuate personnel to safe areas. Use personal protective equipment. Land spill: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system. Water spill: Contain spill with booms. Remove material that settles in deeper areas of waterway. Non-disposable equipment should be thoroughly decontaminated with soap and water. Prevent further leakage or spillage if safe to do so. Do not contaminate any lakes, streams, ponds, groundwater or soil.
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**SECTION 7 HANDLING AND STORAGE**

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<b>Safe handling advice</b>	Wear personal protective equipment. Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Storage and handling materials</b>	Unsuitable: Avoid use of aluminum, copper or brass alloys in storage or process equipment which will contact this material
<b>Further information on storage conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING MEASURES**

Ensure adequate ventilation, especially in confined areas.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes** Chemical resistant goggles must be worn., Wear as appropriate:, Face-shield

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**Skin** Full protective clothing, chemical boots, and chemical gloves. Impervious gloves. Non-disposable equipment should be thoroughly decontaminated with soap and water.

**Inhalation** Use NIOSH approved respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**EXPOSURE GUIDELINES**

<u>Components</u>	<u>Exposure limit(s)</u>
<b>m-Cresol</b>	ACGIH TLV (8-hour) 20 mg/m <sup>3</sup> (inhalable fraction and/or vapor) NIOSH Recommended Exposure Limit 2.3 ppm 10 mg/m <sup>3</sup> NIOSH NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations) 250 ppm OSHA PEL (Permissible Exposure Limit) 5 ppm 22 mg/m <sup>3</sup>
<b>p-Cresol</b>	ACGIH TLV (8-hour) 20 mg/m <sup>3</sup> (inhalable fraction and/or vapor) NIOSH Recommended Exposure Limit 2.3 ppm 10 mg/m <sup>3</sup> NIOSH NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations) 250 ppm OSHA PEL (Permissible Exposure Limit) 5 ppm 22 mg/m <sup>3</sup>
<b>Naphthalene</b>	OSHA PEL (Permissible Exposure Limit) 10 ppm 50 mg/m <sup>3</sup> ACGIH TLV (8-hour) 10 ppm 50 mg/m <sup>3</sup> NIOSH Recommended Exposure Limit 10 ppm 50 mg/m <sup>3</sup> NIOSH Short term exposure limit 15 ppm 75 mg/m <sup>3</sup> NIOSH NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations) 250 ppm

PEL= Permissible Exposure Limits  
TLV= Threshold Limit Value  
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)  
STEL= Short Term Exposure Limit (15 min.)  
WEEL= Workplace Environmental Exposure Level

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance** liquid

**Colour** clear to amber

**Form** liquid

**Odour** Antiseptic

**Odour Threshold** No data available

**Flash point** 92 - 94 °C, 197 - 201 °F

**Flammability** Upper explosion limit: approximately 8 %(V)

Lower explosion limit: approximately 1 %(V)

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<b>Boiling point/boiling range</b>	190 - 220 °C, 374 - 428 °F
<b>Melting point/range</b>	< -20 °C, < -4 °F
<b>Auto-ignition temperature</b>	estimated 559 °C, 1,038 °F
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	0.2 mm Hg @ 25 °C, 77 °F
<b>Vapour density</b>	approximately 4
<b>Density</b>	1.03 g/cm <sup>3</sup> @ 15.5 °C, 59.9 °F
<b>Relative density</b>	1.03 @ 15.5 °C, 59.9 °F
<b>Water solubility</b>	approximately 20 g/l @ 25 °C, 77 °F
<b>Viscosity</b>	No data available
<b>Viscosity, dynamic</b>	5 mPa.s @ 50 °C, 122 °F
<b>pH</b>	5.5
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	log Pow: 2
<b>Molecular weight</b>	116 g/mol

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**SECTION 10 STABILITY AND REACTIVITY**

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<b>Reactivity</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Keep away from heat and sources of ignition.

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**Hazardous decomposition products** Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.

**Materials to avoid** Incompatible with strong acids and bases.  
Incompatible with oxidizing agents.  
Copper and brass alloys  
Aluminium

**Hazardous polymerisation** Hazardous polymerisation does not occur.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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**Additional Remarks** Information given is based on data obtained from similar substances or components of this material.

**Acute dermal toxicity** 238 mg/kg  
(calculated ATE)

**Acute inhalation toxicity** > 1 - 5 mg/l  
(calculated ATE)

**Acute oral toxicity** 130 mg/kg  
(calculated ATE)

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation** Causes serious eye damage.

**Respiratory or skin sensitisation** Guinea pig: Causes sensitisation.

**Germ cell mutagenicity** **Genotoxicity in vitro:**  
Test substance: cresols  
In vitro tests showed mutagenic effects which were not observed with in vivo test.

**Genotoxicity in vivo:**  
In vivo tests did not show mutagenic effects

**Assessment Mutagenicity:**  
Based on available data, the classification criteria are not met.

**Reproductive toxicity** **Reproductive toxicity:**  
Rat; Oral;

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NOAEL (parents): 375 mg/kg  
Test substance: cresols  
Rat; Oral; OECD Test Guideline 422  
NOAEL (parents): 100 mg/kg  
Test substance: Phenol, 3-ethyl

**Assessment Reproductive toxicity:**

Based on available data, the classification criteria are not met.

**Teratogenicity:**

Rabbit; Oral;  
NOAEL (teratogen): 100 mg/kg  
Test substance: cresols  
Rat; Oral;  
NOAEL (teratogen): 100 mg/kg  
Category approach

**Assessment teratogenicity:**

Based on available data, the classification criteria are not met.

**STOT - single exposure** The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure** LOAEL: 0.0009 mg/l. Inhalation; Short-term exposure;  
Test substance: mixed cresols; Category approach  
Target Organs: Hematopoietic system

Rat; . Oral; 13 weeks;  
LOAEL: 50 mg/kg  
Test substance: cresols; Category approach  
Target Organs: Kidney

Mouse; . Oral; 2 years;  
LOAEL: 100 mg/kg  
Test substance: mixed cresols  
Target Organs: Lungs

Target Organs: Central nervous system, Hematopoietic system, Kidney, Lungs  
The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Aspiration toxicity** Not applicable

**Carcinogenicity** **Assessment carcinogenicity:**  
Contains no ingredient listed as a carcinogen



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**SECTION 12                      ECOLOGICAL INFORMATION**

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**Aquatic toxicity**    Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

**Toxicity to fish**    LC50 (Salmo trutta (brown trout)) 96 hours: > 1 - 10 mg/l  
Test substance: p-Cresol  
(literature value)

LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 10 - 100 mg/l  
Test substance: 2,6-xyleneol  
(literature value)

LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 10 - 100 mg/l  
Test substance: Phenol, 4-Ethyl-  
(literature value)

**Toxicity to aquatic invertebrates**    EC50 (Daphnia magna (Water flea)) 48 hours: > 1 - 10 mg/l  
Test substance: p-Cresol  
(literature value)

EC50 (Daphnia magna (Water flea)) 48 hours: > 1 - 10 mg/l  
Test substance: Xyleneol isomer mixture

EC50 (Daphnia magna (Water flea)) 48 hours: > 1 - 10 mg/l  
Test substance: Ethylphenol isomer mixture

**Toxicity to algae**    ErC50 (Desmodesmus subspicatus (green algae)) 48 hours: > 10 - 100 mg/l  
Test substance: p-Cresol  
(literature value)

ErC10 (Desmodesmus subspicatus (green algae)) 48 hours: > 1 - 10 mg/l  
Test substance: p-Cresol  
(literature value)

ErC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 10 - 100 mg/l  
Test substance: Xyleneol isomer mixture

NOErC (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 1 - 10 mg/l  
Test substance: Xyleneol isomer mixture

ErC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 10 - 100 mg/l  
Test substance: Ethylphenol isomer mixture

NOErC (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 1 - 10 mg/l  
Test substance: Ethylphenol isomer mixture

**Chronic toxicity to fish**    NOEC (Pimephales promelas (fathead minnow)) 32 d: > 1 - 10 mg/l  
Test substance: p-Cresol

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(literature value)

**Chronic toxicity to aquatic invertebrates**

NOEC (Daphnia magna (Water flea)) 21 d: > 0.1 - 1 mg/l  
Test substance: p-Cresol  
(literature value)

NOEC (Daphnia magna (Water flea)) 21 d: > 0.1 - 1 mg/l  
Test substance: 2,6-xylenol  
(literature value)

**Biodegradation**

Product is expected to undergo biodegradation at the levels anticipated in the environment.

Readily biodegradable.  
OECD Test Guideline 301D (28 d): > 60 %  
Test substance: m-Cresol  
(literature value)

Readily biodegradable.  
OECD Test Guideline 301C (40 d): > 60 %  
Test substance: p-Cresol  
(literature value)

Inherently biodegradable.  
OECD Test Guideline 302B  
Test substance: 3,5-xylenol

Readily biodegradable.  
OECD Test Guideline 301B (28 d): > 60 %  
Test substance: Ethylphenol isomer mixture

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13****DISPOSAL CONSIDERATIONS**

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**Waste Code**

Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification.



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- Disposal methods** Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.
- Empty containers.** Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

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**SECTION 14                      TRANSPORT INFORMATION**

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- DOT** UN 2022, Cresylic Acid, 6.1 (8), II  
RQ = 100 lbs.
- IATA** UN 2022, Cresylic Acid, 6.1 (8), II  
RQ = 100 lbs.
- IMDG** UN 2022, Cresylic Acid, 6.1 (8), II  
RQ = 100 lbs.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Remarks** No data available

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**SECTION 15                      REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS****TSCA Inventory Listing**

<b><u>Components</u></b>	<b><u>CAS-No.</u></b>
Phenol, 3-methyl	108-39-4
Phenol, 3,5-dimethyl	108-68-9
Phenol, 4-methyl	106-44-5
Phenol, 3,4-dimethyl	95-65-8
Phenol, 2,6-dimethyl	576-26-1
Phenol, 2,3-dimethyl	526-75-0
Phenol, 2-ethyl	90-00-6
Phenol, 3-ethyl	620-17-7
Phenol, 4-ethyl	123-07-9
Phenol, trimethyl	26998-80-1

**SARA 302 Status**  
**Components****CAS-No.****Weight percent**

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

**SARA 311/312 Classification**

Flammable liquids, Acute toxicity, Skin corrosion, Serious eye damage, Skin sensitisation, Specific target organ toxicity - repeated exposure

**SARA 313 Chemical**

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Phenol, 3-methyl	108-39-4	20 - 40 %
Phenol, 4-methyl	106-44-5	10 - 30 %
Naphthalene	91-20-3	< 50 PPM

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

<u>Components</u>	<u>Reportable Quantity</u>	<u>Weight percent</u>
Phenol, 3-methyl	100 LB	20 - 40 %
Phenol, 4-methyl	100 LB	10 - 30 %
Naphthalene	100 LB	< 50 PPM

**INTERNATIONAL REGULATIONS****WHMIS Classification**

Flammable liquids	Category 4
Acute toxicity (Oral)	Category 3
Acute toxicity (Inhalation)	Category 4
Acute toxicity (Dermal)	Category 3
Skin corrosion	Category 1B
Serious eye damage	Category 1
Skin sensitisation	Category 1
Specific target organ toxicity - repeated exposure	Category 2
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 3

**European Union**

Classification according to Regulation (EU) 1272/2008.

Acute toxicity (Oral), Category 3  
Acute toxicity (Inhalation), Category 4  
Acute toxicity (Dermal), Category 3  
Skin corrosion, Category 1  
Serious eye damage, Category 1  
Skin sensitisation, Category 1  
Specific target organ toxicity - repeated exposure, Category 2  
Chronic aquatic toxicity, Category 3

**Australia. Inventory of Chemical Substances (AICS)**

Listed



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Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. ISHL - Inventory of Chemical Substances	Listed
Canada. Domestic Substances List (DSL) Inventory	Not listed
Canada. Non-Domestic Substance Listing (NDSL) This product contains one or several components listed in the Canadian NDSL.	Listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Not listed
Korea. Existing Chemicals Inventory (KECI)	Not listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Not listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Not listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

**STATE REGULATIONS****California Prop. 65****Components**

Naphthalene

**CAS-No.**

91-20-3

Sasol does not specifically analyze for CA Prop 65-listed chemicals. However, through process knowledge, the components listed above may be present at detectable quantities. Sasol's manufacturing process is designed to minimize impurities which would include such substances.

**SECTION 16 OTHER INFORMATION****HAZARD RATINGS**

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	3	2	0
NFPA	3	2	0

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