

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

Trade name LBX98 Synonyms Xylenol

Use Intermediate, Solvent mixture Company Sasol Chemicals (USA) LLC

(an affiliate of Sasol Chemicals North America LLC)

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#### SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Acute toxicity (Oral) Category 4
Hazards Acute toxicity (Dermal) Category 3

Skin corrosion Category 1B
Serious eye damage Category 1
Skin sensitisation Category 1
Acute aquatic toxicity Category 2
Chronic aquatic toxicity Category 2

# **LABEL ELEMENTS**

# **Hazard symbols**



Signal word Danger

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Hazard statements H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

**Prevention** 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.

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

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 person to fresh air and keep comfortable for

breathing.

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.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage P405 Store locked up.

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

# SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	<u>CAS-No.</u>	Weight percent
2,4-Xylenol	105-67-9	55 <b>-</b> 70
2,5-Xylenol	95-87-4	25 <b>-</b> 50
Trimethylphenol	26998-80-1	1 <b>-</b> 10

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

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# SECTION 4 FIRST AID MEASURES

**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. 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.

#### SECTION 5 FIREFIGHTING MEASURES

**FLAMMABLE PROPERTIES** 

**Fire/explosion** May be ignited by open flame.

NFPA Class IIIB combustible liquid.

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do NOT use

extinguishing media water jet.

Protective equipment Wear self-contained breathing apparatus and protective suit.

and precautions for

firefighters

rveal sell-contained breathing apparatus and protective suit

Further information 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

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

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Methods and materials for containment and cleaning up

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.

#### SECTION 7 HANDLING AND STORAGE

Safe handling advice 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.

Storage and handling

materials Unsuitable: Avoid use of aluminum, copper or brass alloys in storage or process

equipment which will contact this material

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat and sources of ignition.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **ENGINEERING MEASURES**

Ensure adequate ventilation, especially in confined areas.

#### PERSONAL PROTECTIVE EQUIPMENT

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

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**

Components Exposure limit(s)

Naphthalene OSHA PEL (Permissible Exposure Limit) 10 ppm 50 mg/m3

ACGIH TLV (8-hour) 10 ppm 50 mg/m3

NIOSH Recommended Exposure Limit 10 ppm 50 mg/m3 NIOSH Short term exposure limit 15 ppm 75 mg/m3

NIOSH NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations) 250 ppm

o-Toluidine OSHA PEL (Permissible Exposure Limit) 5 ppm

ACGIH TLV (8-hour) 2 ppm

\*Skin Hazard: Skin exposure should be prevented or reduced to control skin absorption.

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Permissible Exposure Limits TLV= Threshold Limit Value

STEL= Short Term Exposure Limit (15 min.) EL= Excursion Limit Workplace Environmental Exposure Level WEEL=

TWA=

Time Weighted Average (8 hr.)

#### **SECTION 9** PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Colour clear to amber

Form solid

**Odour** Antiseptic

Odour Threshold No data available

> Flash point 94 °C, 201 °F;

**Flammability** Upper explosion limit: approximately 6 %(V)

Lower explosion limit: approximately 1 %(V)

**Boiling point/boiling** 209 - 211 °C, 408 - 412 °F;

range

30 °C, 86 °F; Melting point/range

**Auto-ignition** 470 °C, 878 °F;

temperature

Decomposition No data available

temperature

Flammability (solid, No data available

gas)

Vapour pressure 0.1 mm Hg @ 25 °C, 77 °F;

Vapour density approximately 4

> Density 1 g/cm3 @ 45 °C, 113 °F;

Relative density 1.0 @45 °C, 113 °F;

Water solubility 5 g/l @ 20 °C, 68 °F;

> Viscosity No data available

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Viscosity, dynamic 4 mPa.s @ 50 °C, 122 °F;

pН 5.5

Evaporation rate No data available

Partition coefficient: n-

log Pow: 2.5; octanol/water

Molecular weight 122 g/mol

**SECTION 10** STABILITY AND REACTIVITY

> Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Keep away from heat and sources of ignition.

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.

**SECTION 11 TOXICOLOGICAL INFORMATION** 

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

this material.

Acute dermal toxicity 202 mg/kg

(calculated ATE)

Acute inhalation

No data available

Acute oral toxicity 386 mg/kg

toxicity

(calculated ATE)

Skin

Causes severe skin burns and eye damage.

corrosion/irritation

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**Serious eye** Causes serious eye damage.

damage/eye irritation

Respiratory or skin sensitisation

Guinea pig: Causes sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro:

In vitro tests did not show mutagenic effects

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; 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:

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

The substance or mixture is not classified as specific target organ toxicant, repeated

exposure.

**Aspiration toxicity** 

Not applicable

Carcinogenicity

Assessment carcinogenicity:

Contains no ingredient listed as a carcinogen

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SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Toxic to aquatic life with long lasting effects.

Toxic to aquatic life.

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 10 - 100 mg/l

Test substance: 2,4-xylenol

(literature value)

LC50 (Oryzias latipes (Japanese medaka)) 96 hours: > 1 - 10 mg/l

Test substance: 2,5-xylenol

(literature value)

Toxicity to aquatic EC50 (Daphnia magna (Water flea)) 48 hours: > 1 - 10 mg/l

invertebrates Test substance: 2,5-xylenol

(literature value)

EC50 (Daphnia magna (Water flea)) 48 hours: > 1 - 10 mg/l

Test substance: Xylenol isomer mixture

Toxicity to algae ErC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 10 - 100 mg/l

Test substance: 2,5-xylenol

(literature value)

ErC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 10 - 100 mg/l

Test substance: Xylenol isomer mixture

NOErC (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 1 - 10 mg/l

Test substance: Xylenol isomer mixture

Chronic toxicity to NOEC (Pimephales promelas (fathead minnow)) 32 d: > 1 - 10 mg/l

fish Test substance: 2,4-xylenol

(literature value)

Chronic toxicity to NOEC (Daphnia magna (Water flea)) 21 d: > 0.1 - 1 mg/l

aquatic invertebrates Test substance: 2,4-xylenol

(literature value)

**Biodegradation** Product is expected to undergo biodegradation at the levels anticipated in the

environment.

Inherently biodegradable.OECD Test Guideline 302B

Test substance: 2,4-xylenol

Inherently biodegradable. OECD Test Guideline 302B Test substance: 2,5-xylenol

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Bioaccumulative No data available

potential

Mobility in soil No data available

Other adverse effects No data available

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

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.

Disposal methods 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.

#### **SECTION 14** TRANSPORT INFORMATION

**DOT** UN 2261, Xylenols, solid, molten, 6.1, II

RQ = 100 lbs. (2,4-xylenol)

IATA UN 2261, Xylenols, solid, molten, 6.1, II

RQ = 100 lbs. (2,4-xylenol)

IMDG UN 2261, Xylenols, solid, molten, 6.1, II, Marine pollutant (2,4-xylenol)

RQ = 100 lbs. (2,4-xylenol)

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

Remarks No data available

#### **SECTION 15** REGULATORY INFORMATION

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#### **U.S. FEDERAL REGULATIONS**

#### **TSCA Inventory Listing**

 Components
 CAS-No.

 Phenol, 2,4-dimethyl
 105-67-9

 Phenol, 2,5-dimethyl
 95-87-4

 Phenol, trimethyl
 26998-80-1

#### SARA 302 Status

<u>Cas-No.</u> <u>Weight percent</u>

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

#### SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

#### **SARA 313 Chemical**

<u>Components</u>	<u>CAS-No.</u>	Weight percent
Phenol, 2,4-dimethyl	105-67-9	55 - 70 %
Naphthalene	91-20-3	< 250 PPM
o-Toluidine	95-53-4	< 50 PPM

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

<u>Components</u>	Reportable Quantity	Weight percent
Phenol, 2,4-dimethyl	100 LB	55 - 70 %
Naphthalene	100 LB	< 250 PPM
o-Toluidine	100 LB	< 50 PPM

# INTERNATIONAL REGULATIONS

#### **WHMIS Classification**

Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 3
Skin corrosion	Category 1B
Serious eye damage	Category 1
Skin sensitisation	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

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#### **European Union**

Classification according to Regulation (EU) 1272/2008.

Acute toxicity (Oral), Category 4
Acute toxicity (Dermal), Category 3
Skin corrosion, Category 1
Serious eye damage, Category 1
Skin sensitisation, Category 1
Chronic aquatic toxicity, Category 2

Australia. Inventory of Chemical Substances (AICS)	Listed
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)	Not 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**

Camponets

ComponentsCAS-No.Naphthalene91-20-3o-Toluidine95-53-4

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.

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SECTION 16 OTHER INFORMATION

**HAZARD RATINGS** 

			<u>Physical Hazard/</u>
	<u>Health</u>	<u>Flammability</u>	<u>Instability</u>
<b>HMIS</b> ®	3	1	0
NFPA	3	1	0

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