

Safety data sheet as per Commission Regulation (EU) 2020/878

Product: 3,5-xylenol



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

1.1 Product identifier

Trade name 3,5-Xylenol
Chemical Name 3,5-dimethylphenol

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

Relevant identified uses Industrial use: As an intermediate and feedstock for chemical synthesis
Professional use: Use as an intermediate under Strictly Controlled Conditions
Uses identified against Not for use other than those specified

1.3 Details of the supplier of the safety data sheet:

Manufacturer Prasol Chemicals Limited
Prasol House, Plot No.A-17/2/3,
T.T.C. Industrial Area, Khairne M.I.D.C.,
Navi Mumbai - 400 710.
Maharashtra, India.
Telephone +91-22-69450600/ 61952500
Telefax +91-22-61952577
e-mail address sales@prasolchem.com; inquiry@prasolchem.com

1.4 Emergency telephone number

Telephone +91-22-7045783555/ 7045790555
Language English

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Toxicity, Oral	Category 3	H301	Toxic if swallowed
Acute Toxicity, Dermal	Category 3	H311	Toxic in contact with skin.
Skin Corrosion	Category 1B	H314	Causes severe skin burns and eye damage.

Information concerning particular hazards for human and environment: No further information

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard

pictograms



GHS05



GHS06

Signal word

Danger

Hazard statements

H301	Toxic if swallowed
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

Precautionary statements

General

P103

Read label before use.

Prevention

P260

Do not breathe dust or mist.

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Use protective gloves and eye protection.

Response

P301+P310

IF SWALLOWED: Immediately call a doctor.

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P302 + P352

IF ON SKIN: Wash with plenty water.

P303+P361+P353

IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water.

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 doctor.

P312

Call a doctor if you feel unwell.

P321

Specific treatment: wash with polyethylene glycol solution.

P330

Rinse mouth.

P361 + P364

Take off contaminated clothing and wash it before reuse.

P363

Wash contaminated clothing before reuse.

Storage

P405

Store locked up.

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Disposal P501

Dispose of contents/container to in accordance with national regulations.

2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of Annex XIII to REACH regulation

Not having endocrine disruptive properties as per criteria of Delegated Regulations (EC) 2017/2100 or (EC) 2018/605

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name	3,5-Xylenol
CAS Number	108-68-9
EC Number	203-606-5
Molecular Formula	C ₈ H ₁₀ O
Molecular Weight	122.16

Ingredient	Classification	Concentration (%)	SCL, M-factor, ATE
3,5-Xylenol	Ac. Tox. (oral) , 3 Ac. Tox. (Dermal) 3, Skin Corr. 1B; H301, H311, H314	100	Not assigned

3.2 Mixtures not applicable

None of the ingredients present are classified as skin sensitisers 1A, respiratory sensitisers 1A, aspiration hazards and endocrine disruptors.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

Take off all contaminated clothing immediately.

After inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention

After skin contact

Wash off with plenty of water immediately, seek medical advice if necessary.

After eye contact

Rinse with plenty of water immediately and seek medical advice.

After swallowing

Do not induce vomiting and seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes eye and skin irritation

After inhalation

EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Headache. Dizziness. Coordination disorders. Narcosis. Impaired concentration. Respiratory difficulties.

After skin contact

Irritant. No indication for sensitising properties in humans.

After eye contact

Irritation of the eye tissue. Inflammation/damage of the eye tissue.

After swallowing

Vomiting. Nausea. Disturbances of consciousness

Chronic symptoms

Skin rash/inflammation

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

CO₂, dry powder, foam or water spray

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Heating or fire can release toxic gas (Carbon monoxide)

5.3 Advice for firefighters

Combustible. Do not expose to high temperature.

Danger of bursting and explosion. Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area.

Do not allow fire water to penetrate into surface or ground water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

For small spills and large spills: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Clear spills immediately. Remove persons not involved upwind. .

Protective equipment: Gloves, Face shield, Protective clothing.

Emergency procedures: Mark the danger area. No naked flames. Wash contaminated clothes.

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	For emergency responders	Protective equipment: Equip cleanup crew with proper protection. Emergency procedures: Ventilate area.
6.2	Environmental precautions	Plug leak if safely possible. Do not allow to enter drains, surface waters, basements or pits.
6.3	Methods and material for containment and cleaning up	For containment: Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. For cleaning up: Soak up with inert absorbent material eg. sand, earth, vermiculite or powdered lime stone and keep in suitable, closed containers for disposal. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Flowing water: In case of large spills/leaks inform appropriate local, state, and federal spill reporting authorities.
6.4	Reference to other sections	Section 8 for information on personal protection equipment. Section 13 for disposal information

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Do not breathe vapours. Use only explosion-protected equipment/instruments.
7.2	Conditions for safe storage, including any incompatibilities	Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Beware of re-ignition.
	Advice on protection against fire and explosion	Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.
	Storage	Storage temperature: < 45°C
	Packaging material	Steel or refined steel
	Incompatibility	Metals Rubber, various plastics, alloys
	Advice on common storage	Observe prohibition against storing together!
	Storage class	-
	Storage stability	Stable under recommended storage conditions
7.3	Specific end use(s)	As given in Section 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	Time-Weighted Average (TWA) exposure limit : 1 ppm (ACGIH)
8.2	Exposure controls	
	Appropriate engineering controls	Provide good ventilation and/or an exhaust system in the work area.
	Personal protective equipment	
	Eye/ face protection	closed goggles, face shield
	Skin protection	Glove material Layer thickness Penetration time
	Hand protection	Butyl-rubber 0.5 mm > 480 min
	Body protection	Use solvent-resistant protective clothing. Flame-retardant antistatic protective clothing; safety shoes
	Respiratory protection	Respiratory equipment with suitable filter or a self-contained respiratory apparatus.
	Thermal hazards	Do not expose to extreme heat
	Industrial hygiene	Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate. Smoking, eating and drinking should be prohibited in the application area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Physical state	solid
	Color	white to yellow
	Odour	phenolic
	Odour threshold	1ppm
	pH	not determined (pKa 10.19)
	Melting point	62°C
	Boiling range	221°C
	Flash point	80°C (closed cup)

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Flammability (solid, gas)	no data available
Flammability limits	not applicable
Vapour pressure	5Pa at 38°C
Vapour density	not determined
Relative density	0.967 at 75°C
Solubility in water	4880mg/l at 20°C
Partition coefficient	2.35 at 25°C
Ignition temperature	>555°C
Decomposition temperature	no data available
Viscosity at 20 °C	2.4mPa s at 90°C
Particle characteristics	Not a nanomaterial/ nanoform
9.2 Other information	Heat of vaporization 13,767.7 g cal/g mole
Evaporation rate	no data available
Explosive properties	no explosive properties (structural reasons)
Oxidizing properties	no oxidizing properties (structural reasons)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No dangerous reactions if stored and handled as indicated.
10.2 Chemical stability	Under storage at ambient temperatures (-40°C to +40°C depending on the geographical location), the product is stable.
10.3 Possibility of hazardous reactions	Exothermic reaction with aldehyde, halogens, hydrogen peroxide, oxidising agent, strong acids and bases, formaldehyde; risk of explosion with nitrites, nitrates, peroxy compound
10.4 Conditions to avoid	Heat, flames and sparks. avoid static electricity discharge
10.5 Incompatible materials	Oxidizing agents, aldehydes, isocyanates, nitrites, nitrides, Friedel-Crafts catalysts. Avoid ignitable vapour-air-mixtures.
10.6 Hazardous decomposition products	Thermal decomposition products- Carbon monoxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity	
LD50 oral rat	3620mg/kg bw Cat 3 H301
LC50 inhalation rat	>0.7mg/L
LD0 dermal rabbit	> 2000 mg/kg Cat 3 H311
Skin irritation	Slightly irritating
Serious eye irritation	Highly Irritating Cat 1B H314
Respiratory or skin sensitization	Not determined (2,4-Isomer is sensitizing)
Germ cell mutagenicity	non mutagenic (Ames test)
Carcinogenicity	no indications for a carcinogenic potential
Reproductive toxicity	no adverse effect on reproduction (rat)
STOT-single exposure	irritating to eye and skin
STOT-repeated exposure	NOEL 30ppm, reduced body weight gain in rat
Aspiration hazard	no data available
11.2 Information on other hazards	
Endocrine disrupting properties	No endocrine disrupting properties
Other information	No further information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
Aquatic toxicity	
Toxicity to aquatic invertebrates	EC50 24h 10mg/L <i>Daphnia magna</i>
Toxicity to aquatic algae and cyanobacteria	EC50 72h 14mg/L <i>Pseudokirchneriella subcapitata</i>
12.2 Persistence and degradability	
Biodegradation	readily biodegradable, but failing 10day window
12.3 Bioaccumulative potential	low potential for bioaccumulation
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	Not a PBT, vPvB substance according to the REACH regulation
12.6 Endocrine disrupting properties	No endocrine disrupting properties

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12.6 Other adverse effects

Harmful to aquatic life

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods** Observe all national, state and local environmental regulations
- Product disposal** Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- Packaging disposal** Clean container with water. Recover waste water for processing later. Destroy packaging by incineration at an approved waste disposal site.
- Sewage disposal** Do not dispose in sewage.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	ICAO/IATA
14.1 UN Number	2261	2261	2261
14.2 UN proper shipping name	Xylenols (solid)		
Chemical name	3,5-dimethylphenol		
14.3 Transport hazard class	6.1	6.1	6.1
14.4 Packaging group	II	II	II
14.5 Environmental hazards	Not a marine pollutant		
14.6 Special precautions for the user	corrosive and irritant; Danger		
Danger group (Kemmler)	60		
EmS Number	F-A, S-A		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	See regulatory information for transport approval		

SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Major accident hazard** Seveso III No
- International Chemical Inventory Status**
- USA (TSCA)** Listed (Tracking No 25270)
- Canada (DSL)** listed
- Australia (AICS)** listed
- Japan (MITI)** listed
- Korea (KECL)** Listed (KE No 11766)
- Philippines (PICCS)** listed
- China** listed
- New Zealand** listed
- Taiwan** listed
- 15.2 Chemical safety assessment** A Chemical Safety Assessment will be carried out at the time of REACH registration

SECTION 16: OTHER INFORMATION

Indication of changes: Sections in which changes have been made since the last version are marked with a diamond ♦ in the left hand margin.

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List

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LC50	Lethal concentration, 50 percent
LD0	Maximum tolerable dose
LD50	Lethal dose, 50 percent
M-factor	Multiplication Factor
MITI	Ministry of International Trade and Industry
NOEL	No Observed Effect Level
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
SCL	Specific concentration limit
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

Key literature references and sources for data

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA CHEM <https://chem.echa.europa.eu/100.003.279/overview>

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End of safety data sheet-