



AW-100 (Anit-Washout)

Materials Safety Data Sheet

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND ON THE COMPANY/UNDERTAKING

Product Name **AW-100 (Anti-washout Admixture)**
 Company **Kenal Chemical Pvt. Ltd.**
 Address **Khairani-4, Chitwan - Nepal**
 Telephone
 Fax
 E-mail info@kenalchemical.com

2. HAZARDOUS CONSTITUENTS

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)
 Not a hazardous substance or mixture.
 GHS label elements
 Not a hazardous substance or mixture.
 Additional Labeling
 There are no ingredients with unknown acute toxicity used in a mixture at a concentration $\geq 1\%$.
 Other hazards

3. COMPOSITION / INFORMATION ON INGREDIENTS

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

<u>CAS Number</u>	<u>Classification</u>	<u>Weight %</u>	<u>Chemical name</u>
102-72-6		$\geq 1 - < 5$	2,2',2''-nitrilotriethanol
1000-82-4	Skin Irrit. 2; H315	$\geq 1 - < 5$	(hydroxymethyl)urea Eye Irrit. 2A; H319
111-42-2	STOT SE 3; H335 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373	$\geq 1 - < 1$	2,2'-iminodiethanol
67-56-1	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370 Repr. 1B; H360	$\geq 1 - < 1$	methanol

4. FIRST-AID MEASURES

General advice: No hazards which require special first aid measures.
If inhaled: Move to fresh air.
If on skin: Take off contaminated clothing and shoes immediately.
 Wash off with soap and plenty of water.
If in eyes: Flush eyes with water as a precaution.
 Remove contact lenses.
 Keep eye wide open while rinsing.
If swallowed: Clean mouth with water and drink afterwards plenty of water.
 Do not induce vomiting without medical advice.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person. .
Most important symptoms and effects, both acute and delayed No known significant effects or hazards.
 No information available
Notes to physician Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece).

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling

For personal protection see section 8.

No special handling advice required.

Follow standard hygiene measures when handling chemical products.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store in accordance with local regulations.

Materials to avoid

No special restrictions on storage with other products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,2',2"-nitrilotriethanol	102-71-6	TWA	5 mg/m ³	ACGIH
2,2'-iminodiethanol	111-42-2	TWA (Inhal-able fraction and vapor)	1 mg/m ³	ACGIH
		TWA	3 ppm	OSHA P0
			15 mg/m ³	
methanol	67-56-1	TWA	200 ppm	OSHA Z-1
			260 mg/m ³	
		STEL	250 ppm	OSHA P0
			325 mg/m ³	
		TWA	200 ppm	OSHA P0
			260 mg/m ³	

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

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The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures product.

Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Odour:	slight odour
Odour threshold:	No applicable information available.
Colour:	light Yellow liquid, odor - Mild
pH value:	a. > 7 (73 °F / 23 °C)
Melting point:	No applicable information available.
Boiling point:	No applicable information available.
Sublimation point:	No applicable information available.
Flash point:	> 212 °F / > 100 °C
Flammability:	not determined
Lower explosion limit:	No applicable information available.
Upper explosion limit:	No applicable information available.
Vapour pressure:	No applicable information available.
Density:	1.02 g/cm ³ (20 °C)
Relative density:	No applicable information available.
Vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	No applicable information available.
Solubility in water:	The product has not been tested.
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Evaporation rate:	No applicable information available.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated. Oxidizing properties: Based on its structural properties the product is not classified as oxidizing.

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

Stable under recommended storage conditions.

Conditions to avoid

No data available

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Incompatible materials No data available
Hazardous decomposition products No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Oral

No applicable information available.

Inhalation

No applicable information available.

Dermal

No applicable information available.

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Irritating to eyes and skin. Risk of serious damage to eyes. Causes burns.

Sensitization

Assessment of sensitization: May cause sensitization by skin contact.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Teratogenicity

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Other Information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

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Inherently biodegradable. The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants. The polymer component of the product is poorly biodegradable. **Materials Safety Data Sheet**

Bioaccumulative potential

Assessment bioaccumulation potential

Discharge into the environment must be avoided.

Mobility in soil

Assessment transport between environmental compartments

No data available.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Residues should be disposed of in the same manner as the substance/product. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. TRANSPORT INFORMATION

Land transport TDG

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION

TSCA list

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)
2,2'-iminodiethanol	111-42-2	100

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

No SARA Hazards

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

16. OTHER INFORMATION

SDS Prepared by:

KENAL CHEMICAL NA Product Regulations

SDS Prepared on: 2024/02/05

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET

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