

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

Product identifier

Trade Name: Fatty Acid Diethanolamide

CAS Number: 68603-42-9

Use of the substance/preparation

Ingredient in Personal and Home Care products

Details of the supplier of the safety data sheet

Zhejiang Zanyu New Material Co., Ltd.

No. 128 Renmin East Road, Pujiang, Jinhua

China

Manufacturer/Supplier: Zip Code 322200

Tel: +86/0571 88968295 Fax: +86/0571 88968295

Mail: techqu@zzytech.com

Emergency Telephone Number: +86/0571 88968295

2. Hazards Identification

Classification of the substance or mixture

Physical hazards Not classified.

Acute toxicity - oral Category 4 (H302)

Health hazards Skin Irritation Category 2 (H315)

Serious Eye Damage Category 2A (H319)

Hazardous to the aquatic environment, acute

Category 2 (H401)

hazard Environmental hazards

Hazardous to the aquatic environment,

long-term hazard Category 3 (H402)

iong-term nazar

OSHA defined hazards Not classified.

Label elements

Hazard label for supply/use required.





Signal word: Warning

H302: Harmful if swallowed. H315:Causes skin irritation. H319:Causes

serious eye damage. H412:Harmful to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. P260:Do not breathe mist or

Precautionary statements vapor. P264: Wash thoroughly after handling. P273: Avoid release to the

environment. P280:Wear protective gloves/protective clothing/eye

protection/face protection.

P302+P350: If on skin: Wash with plenty of water.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue

rinsing. P337+P313: If exposed or concerned: Get medical

advice/attention.

Response P362+P364: Take off contaminated clothing and wash before reuse.

Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. If

eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Storage Store locked up.

Disposal Disposal

local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental

None.

3. Composition/ Information on Ingredients

Mixtures

Name	CAS-No.	Percent [%]
Fatty Acid Diethanolamide (Alternative CAS:	68603-42-9 80 ~90	
68155-07-7)	08003-42-9	80 90
Glycerin	56-81-5	< 10
Diethanolamine	111-42-2	< 5
Free oil	8001-31-8	< 5

4. First Aid Measures



In case of inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Immediately flush with plenty of water. Remove contaminated clothing and

After skin contact: wash clothing separately before reuse. If irritation persists get medical

attention.

Immediately flush eyes with running water for at least 15 minutes. Get After eye contact:

medical attention.

After Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important Symptoms may include stinging, tearing, redness, swelling, and blurred

symptoms/effects, vision. Skin irritation. May cause redness and pain. Prolonged exposure may

acute and delayed cause chronic effects.

Indication of immediate

medical attention and Provide general supportive measures and treat symptomatically. Keep

special treatment victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. Ensure that medical

General information personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Firefighting Measures

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. CO₂.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the

fire.

Extinguishing media which must

not be used for safety reasons:

High power water jet.

Special hazards arising from the

substance or mixture

In case of fire may be liberated: nitrogen dioxide and nitrogen monoxide, carbon monoxide and carbon monoxide and carbon

dioxide.

Advice for firefighters

Self-contained breathing apparatus and full protective clothing

must be worn in case of fire.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire

hazards

needed

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards

noted.

6. Accidental Release Measures

Personal precautions, Keep unnecessary personnel away. Keep people away from and upwind of protective equipment spill/leak. Wear appropriate protective equipment and clothing during



and emergency procedures

clean-up. Do not breathe mist or vapor. Do not touch damaged containers or

spilled material unless wearing appropriate protective clothing.

Ensure adequate ventilation. Local authorities should be advised if

significant spillages cannot be contained.

Environmental precaution

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water

courses or onto the ground.

Methods for containment

Prevent entry into waterways, sewers, basements or confined areas.

Wear appropriate protective equipment and clothing during clean-up. Eliminate ignition sources including sources including sources of electrical,

Methods for cleaning

static or frictional sparks.

Small Spills: Use a non-combustible material like vermiculite, sand or earth

to soak up the product and place into a container for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

Reference to other

sections

up

Refer additionally to chapter 8 and 13.

7. Handling and Storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Requirements for storeroom and containers:

Protect from frost. In case the product becomes cloudy, thicker or frozen by cooling, defrost it at room temperature and stir it.

Hints on joint storage: No information is available.

8. Exposure Controls/ Personal Protection

Engineering controls

Use general ventilation. Local exhaust is suggested for use, where possible,

in enclosed or confined spaces.



General Eye wash fountain and emergency shower are recommended

Eye/face protection Wear chemical goggles. Face-shield.

Skin protection Wear suitable protective clothing. Use impervious gloves.

If ventilation is not sufficient to effective prevent buildup of aerosols or Respiratory protection

vapors, appropriate respiratory protection must be provided.

9. Physical & Chemical Properties

Appearance Viscous liquid

Odour Characteristic odour

Molecular Formula $C_{11}H_{23}CON(CH_2CH_2OH)_2$

Molecular Weight 287

pH(25℃) 10.5 @10% Alcohol Solution

Freezing point 8-12 ℃

Relative density 0.99g/mL (water=1)

Boiling point $>150^{\circ}$ C Flash point $>93^{\circ}$ C

Vapor density Not available

Solubility Easily soluble in water

Main application Used in shampoo, detergent, soap etc.

10. Stability& Reactivity

The product is stable and non-reactive under normal conditions of use, **Reactivity**

storage and transport.

Chemical stability Material is stable under normal conditions.

Incompatible materials Strong acids and oxidizing agents. Peroxides. Phenols.

Avoid temperatures exceeding the flash point. Contact with incompatible Conditions to avoid

materials.

Possibility of

Polymerization

Will not occur

Hazardous decomposition

No hazardous decomposition products are known.

11. Toxicological Information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Prolonged inhalation may be harmful. May cause damage to organs

Inhalation by

inhalation.



Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Symptoms related to the

physical, chemical and

toxicological characteristics

Acute Oral Acute oral toxicity (LD50): >5000 mg/kg [Rat.]

Sub-acute and

Chronic Toxicity

Irritation Moderately irritating to eyes, slight or no irritation to skin.

Carcinogenicity Suspected of causing cancer.

Teratogenicity Not available

Testing has shown this product to be non-mutagenic when make the **Mutagenicity**

rats expose in 100mg/ml products for 24h.

Not list as toxicity according to the test of rat.

12. Ecological Information

Harmful to aquatic, may cause long-term adverse effect in the aquatic

Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Skin irritation. May cause redness and pain.

environment.
Algae toxicity:

Eco-toxicity EC50 Desmodesmus subspicatus (green algae): <10 mg/L/72h.

Daphnia toxicity:

EC50 Daphnia magna (daphnia): <10 mg/L/48h (OECD 202).

Fish toxicity:

LC50 (fish): <10 mg/L/96h (OECD 203).

Persistence

and degradability

This product is readily biodegradable.

Bioaccumulative

potential

No data available.

Mobility The product will dissolve in water.

13. Disposal Considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal

site. This material and its container must be disposed of as hazardous waste.

Do not allow this material to drain into sewers/water supplies. Do not **Disposal instructions**

contaminate ponds, waterways or ditches with chemical or used container.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the



Waste from residues / D

producer and the waste disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

unused products

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

According to ADN/ADR/RID/IMDG/IATA not classified as dangerous goods.

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

UN number Not available

UN proper shipping name ADR/RID, IMDG, IATA: Not restricted

Transport hazard class(es) Not available

Packing group Not available

Environment hazards Marine pollutant No

Special precautions for userSee sections 6 to 8 of this Safety Data Sheet.

Transport in bulk according to Annex II of

No transport as bulk according IBC-Code

MARPOL 73/78 and the IBC-Code

15. Regulatory Information

Environmental Protection Law of The People's

Republic of China

Regulations on the Safety Administration of
The State Council issued, Jan.26,2002

Dangerous Chemicals

Implementing Regulations on Safety Management NO.677, Department of Labor and Chemical

of Hazardous Chemicals Industry issued, 1992

Workplace Provision on Safety Use of Chemicals NO.423, Department of Labor issued, 1996

Classification and Labels of Dangerous Chemical

Substances Commonly used GB 13690-2009

Rule for Storage of Chemical Dangers GB15603-1995
Packing Symbol of Dangerous Goods GB 190-2009

General Specifications for Transport Packages of GB 12463-2009



Dangerous Goods

16. Other Information

Guidance Department	R&D department
Created	06-30-2010
Last Updated	11-04-2018