



Safety Data Sheet (SDS)

Revision / Review Date: 1/7/16

1. Chemical Product and Company Identification

Product Name:	TEA 85 Powder 72%
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
SDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Dispersion
CAS No.	Trade Secret
OSHA Status	Hazardous

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

Skin Corrosion/Irritation, Category 1A

Serious Eye Damage/Eye Irritation, Category 1

Carcinogenicity, Category 2

Specific Target Organ Toxicity (repeated exposure), Category 2

Pictograms:



Signal Word:

Warning/ Danger

Hazard phrases:

H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer if it is conclusively proven that no other routes of exposure cause the hazard.
H373: May cause damage to organs through prolonged or repeated exposure.

Precaution phrases:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust, fumes, gas, mist, vapors or spray.
P264: Wash {hands} thoroughly after handling.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
P362+364: Take off contaminated clothing and wash it before reuse.
P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.
P272: Contaminated work clothing should not be allowed out of the workplace. P271: Use only outdoors or in a well-ventilated area.

Response phrases:

P301+330+331: If swallowed: Rinse mouth. Do NOT induce vomiting.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P303+361+353: If on skin or hair: Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P321: Specific treatment {see ... on this label}.
P332+313: If skin irritation occurs, get medical advice/attention.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313: If exposed or concerned: Get medical attention or advice.
P310: Immediately call a POISON CENTER or doctor.
P314: Get medical attention or advice if you feel unwell.
P321: Specific treatment see section 4.
P337+313: If eye irritation persists, get medical advice/attention.
P333+313: If skin irritation or rash occurs, seek medical advice/attention.
P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Storage and disposal phrases:

P501: Dispose of contents/container to {...}.
P405: Store locked up.
P403+233: Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere
P501: Dispose of contents and containers per section 13.

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Potential health effects (Acute & Chronic):

Prolonged or repeated skin contact may cause dermatitis. May cause liver and kidney damage. Oral and dermal administration of triethanolamine to laboratory animals produced liver, kidney, and nerve damage (scattered degeneration in the myelin sheath of individual).

Primary Routes of Entry:

Skin, eyes, inhalation of oil mist if the product is aerosol.

Medical Conditions Generally Aggravated by Exposure:

Eye Contact:

Causes eye irritation.

Skin Contact:

Prolonged and/or repeated contact may cause irritation and/or dermatitis. Causes redness and pain. 100% triethanolamine was required to produce an irritant reaction in nonscarified skin. (ICI Chemicals & Polymers Limited) May be harmful if absorbed through the skin.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation:

Inhalation of vapors will cause coughing or breathing difficulty. Inhalation of vapor from heated material or mist cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain and coughing. May be harmful if inhaled.

Hazard Rating System:

Health-2, Flammability -1, Physical -1

3. Composition / Information on Ingredients

CAS #	Components (Chemical Name)	Concentration
102-71-6	Triethanolamine	69.0 -75.0 %
1344-95-2	Synthetic calcium silicate	25.0 -31.0 %
111-42-2	Diethanolamine	4.0 -9.0 %

4. First Aid Measures

Inhalation:

If symptoms develop, move victim away from exposure and into fresh air. Administer oxygen if breathing is difficult.

Eyes:

Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. If symptoms persist or if there is any visual difficulty, consult physician.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash off with soap and plenty of water.

Ingestion:

Get medical aid immediately. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person.

Note to Physician:

Treat symptomatically and supportively. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5. Fire-Fighting Measures

Suitable Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical form. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Fire Fighting Procedures:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

Steps to be taken in case material is Spilled:

Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Do not let this chemical enter the environment.
Personal precautions. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions:

Do not let product enter drains.

Waste Disposal:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Reclaim or dispose of in accordance with local, state, and federal regulations

7. Handling and Storage:

Precautions to be taken in handling:

Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Precaution to be taken in Storage:

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in aluminum containers. Store protected from moisture.

Store protected from light and air. Store protected from light.
Keep container tightly closed in a dry and well-ventilated place

8. Exposure Controls / Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA
102-71-6	Triethanolamine		TLV: 5 mg/m ³
1344-95-2	Synthetic calcium silicate	PEL: 15 (dust); 5 (resp.) mg/m ³	TLV: 10 mg/m ³ (E)
111-42-2	Diethanolamine		TLV: 2 mg/m ³

Respiratory Equipment:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Ventilation:

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentration low.

Protective Gloves:

Wear appropriate protective gloves to prevent skin exposure. Handle with gloves.

Eye Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Safety glasses with side-shields conforming to EN166.

Skin and Body Protection:

Wear appropriate protective clothing to prevent skin exposure. Choose body protection according to the amount and concentration of dangerous substance at the work place.

Other Precautions:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical Form:

Solid

Appearance & Odor:

White to off-white powder.

Specific Gravity (Water = 1):

1.31 ± .10

10. Stability and Reactivity

Stability:

Stable

Incompatibility (Materials to Avoid):

Strong oxidizing agents, strong acids, Aluminum, cooper, Copper alloys, Zinc.

Conditions to Avoid:

Light, moisture

Hazardous Decomposition or Byproducts: Oxides of carbon, oxides of nitrogen, ammonia.

Possibility of Hazardous Reactions: Will not occur.

11. Toxicological Information

Toxicological Information:

Acute toxicity: No data available.

Respiratory or skin sensitization: Germ cell mutagenicity.

Reproductive toxicity: no data available.

Specific target organ toxicity -single exposure (Globally Harmonized System) Inhalation: May cause respiratory irritation.

Specific target organ toxicity -repeated exposure (Globally Harmonized System): Aspiration hazard.

Irritation or Corrosion: No data available.

Carcinogenicity/Other Information:

CAS# 102-71-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

CAS #	Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
102-71-6	Triethanolamine		3		
1344-95-2	Synthetic calcium silicate			A4	
111-42-2	Diethanolamine		2B		

12. Ecological Information

No data available

13. Disposal Considerations

Waste Disposal Method:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

D.O.T. Shipping Name:

DOT Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s.,(diethanolamine) DOT Hazard Class: 9 CLASS 9 UN/NA Number: UN3077 Packing Group: III



Air - ICAO (international Civil Aviation Organization):

ICAO/IATA Shipping Name: Environmentally hazardous substances, solid, n.o.s.,(diethanolamine)

Sea - IMDG (International Maritime Dangerous Goods):

IMDG/IMO Shipping Name: Environmentally hazardous substances, solid, n.o.s.,(diethanolamine) MARINE TRANSPORT (IMDG/IMO): UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 Marine Pollutant: No

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Environmentally hazardous substances, solid, n.o.s.,(diethanolamine)

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Environmentally hazardous substances, solid, n.o.s.,(diethanolamine)LAND TRANSPORT (Canadian TDG): UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9

Additional Transport:

ERG # 171

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Components (Chemical Name)	Section 302 (EHS)	Section 304 RQ	Section 313 (TRI)
102-71-6	Triethanolamine	No	No	No
1344-95-2	Synthetic calcium silicate	No	No	No
111-42-2	Diethanolamine	No	Yes 100 LB	Yes

CAS # Components (Chemical Name)

102-71-6 Triethanolamine

Other US EPA or State Lists

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 4094; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

1344-95-2 Silicic acid, Calcium salt

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -

111-42-2	Diethanolamine	Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 4002; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test, 12(b); CA PROP.65: Yes; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 0686; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
CAS #	Components (Chemical Name)	International Regulatory Lists
102-71-6	Triethanolamine	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - (2)-308; Japan ISHL: No; Korea ECL: Yes - KE-25940; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 201; Switzerland Giftliste 1: Yes - G-2962; Switzerland INNS: No; REACH: Yes - (R), (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No
1344-95-2	Silicic acid, Calcium salt	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - (1)-194; Japan ISHL: No; Korea ECL: Yes - KE-30982; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - (R), (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No
111-42-2	Diethanolamine	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - (2)-302; Japan ISHL: No; Korea ECL: Yes - KE-20959; Philippines ICCS: Yes; Taiwan TCSCA: Yes - 114-01; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 77; Switzerland Giftliste 1: Yes - G-1490; Switzerland INNS: No; REACH: Yes - (R), (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No
<u>Regulatory Information:</u>		All C.A.S.#'s associated with this product is specified on the public Portion of the Domestic Substances List.
<u>Regulatory Information Statement:</u>		All ingredients of this product are listed or exempted from the EPA TSCA Inventory.

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control

and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.