CUSTOMER: 272556	ORDER #: 6827246
BATCH #: 5264463	DELIVERY ID: 22311056
PICK ZONE: PDM2	PICK SEQUENCE #: 18034
PRODUCT NAME: BLUE BEAST ADVANCED	BARCODE #: 12087149

Safety Data Sheet: BLUE BEAST ADVANCED

Supercedes Date 04/22/2014 **Issuing Date** 05/31/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BLUE BEAST ADVANCED
Recommended use Cleaning agent
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0750
Chemical nature Mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone Inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Blue **Physical state** Liquid **Odor** Glycol ether

GHS Classification

Physical Hazards

Corrosive to Metals	Category 1

Health Hazard

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

Other hazards
None

Labeling
Signal Word
DANGER

Hazard statements
H314 - Causes severe skin burns and eye damage
H290 - May be corrosive to metals

Precautionary Statements
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P260 - Do not breathe mist or vapor
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332 + P313 - If skin irritation occurs, get medical attention.
P363 - Wash contaminated clothing before reuse
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 physician.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P390 - Absorb spillage to prevent damage.
P406 - Store in corrosion resistant container with a resistant inner liner
P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Ethanolamine	141-43-5	5-10

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe mist or vapors.
Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	Treat symptomatically. The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point > 200 °F / > 93 °C **Method** Seta closed cup
Flammability Limits in Air %: Mixture. **Upper:** 23 **Lower:** 3
Suitable Extinguishing Media
Water spray. Dry chemical. Foam. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical
Material can create slippery conditions. Contact with metals liberates flammable hydrogen gas.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear .

NFPA	**Health** 3	**Flammability** 1	**Instability** 0
HMIS -	**Health** 3	**Flammability** 1	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	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).
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.
Neutralizing Agent	Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin or on clothing. Do not breathe mist or vapors.				
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.				
Storage Temperature	**Minimum**	36 °F / 2 °C		**Maximum**	120 °F / 49 °C
Storage Conditions	**Indoor**	X	**Outdoor**	**Heated**	**Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Ethanolamine	TWA: 3 ppm STEL: 6 ppm	TWA: 3 ppm TWA: 6 mg/m^3	30 ppm STEL 6 ppm STEL 15 mg/m^3 TWA: 3 ppm TWA: 8 mg/m^3

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	**Viscosity**	Non viscous
Color	Blue	**Odor**	Glycol ether
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	12	**Specific Gravity**	1.008
Evaporation Rate	No data available	**Percent Volatile (Volume)**	92.9
VOC Content (%)	16.4	**VOC Photoreactive (Y/N)**	Yes
VOC Content (g/L)	165.6	**Vapor Pressure**	16.72 mmHg @ 70°F
Vapor Density	No information available	**Solubility**	Soluble
n-Octanol/Water Partition	No data available	**Melting Point/Range**	No data available
Decomposition Temperature	No data available	**Boiling Point/Range**	> 105 °F / 41 °C

Flammability (solid, gas)	No data available		
Flash Point	> 200 °F / > 93 °C	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits In Air %:	Mixture	**Upper:** 23 **Lower:** 3	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition.
Incompatible Products	Strong oxidizing agents, Reducing agents, Halogenated hydrocarbon, Aldehydes, Vinyl compounds, Ketones, Bases, Acids.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Ammonia, Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Sulfur oxides, Halogenated compounds, Thermal decomposition can lead to release of irritating gases and vapors.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure	Eye contact, Skin contact, Inhalation.
Primary Routes of Entry	Skin contact, Ingestion, Eye contact.
Acute Effects:	
Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Chronic Toxicity	Inhaled corrosive substances can lead to a toxic edema of the lungs.
Target Organ Effects	Skin, Eyes, Respiratory system, Central nervous system.
Aggravated Medical Conditions	Skin disorders, Neurological disorders, Respiratory disorders.

Component Information

Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Ethanolamine 141-43-5	= 1720 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	No data available	No data available	No data available

Chronic Toxicity

Chemical Name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Ethanolamine 141-43-5	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system

Carcinogenicity Contains no ingredient listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Ethanolamine	EC50 = 15 mg/L Desmodesmus subspicatus 72 h	LC50 = 227 mg/L Pimephales promelas 96 h LC50 = 3684 mg/L Brachydanio rerio 96 h LC50 300 - 1000 mg/L Lepomis macrochirus 96 h LC50 114 - 196 mg/L Oncorhynchus mykiss 96 h LC50 > 200 mg/L Oncorhynchus mykiss 96 h	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	65: 48 h Daphnia magna mg/L EC50	-1.91

Persistence and Degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of in accordance with local regulations.
Container Disposal	Empty containers should be taken for local recycling, recovery , or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S.
Hazard Class	8
UN-No	UN2735
Packing Group	II
Description	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.,(ETHANOLAMINE), 8, PG II

TDG

Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S
Hazard Class	8
UN-No	UN2735
Packing Group	II
Description	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.,(ETHANOLAMINE), 8, PG II

ICAO

UN-No	UN2735
Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S
Hazard Class	8
Packing Group	II
Shipping Description	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.,(ETHANOLAMINE), 8, PG II

IATA

UN-No	UN2735
Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S
Hazard Class	8
Packing Group	II
ERG-Code	8L
Shipping Description	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.,(ETHANOLAMINE), 8, PG II

IMDG/IMO

Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S
Hazard Class	8
UN-No	UN2735
Packing Group	II
EmS No.	F-A, S-B
Description	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.,(ETHANOLAMINE), 8, PG II

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

16. OTHER INFORMATION

Prepared By	Adrienne McKee
Supercedes Date	04/22/2014
Issuing Date	05/31/2018
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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