

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 06/12/15 Supersedes: 03/21/2014 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

: BWT-849 STEAMLINE TREATMENT Trade name

Product form : Mixture

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

Use of the substance/mixture : Steamline Treatment

Details of the supplier of the safety data sheet

Kriss Premium Products, Inc. 3400 East 42nd Street Minneapolis, MN 55406

Emergency telephone number

: INFORMATION: 612-722-8485 Emergency number

CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227 Acute Tox. 4 (Dermal) H312 Skin Corr. 1A H314 H361 Repr. 2

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS05

GHS07



Signal word (GHS-US) Danger

Hazard statements (GHS-US) : H227 - Combustible liquid

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS-US) P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, open flames, sparks. - No smoking

P260 - Do not breathe mist, spray, vapours

P264 - Wash skin and clothing thoroughly after handling

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

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

P312 - Call a doctor if you feel unwell

P321 - Specific treatment (see first aid instructions on this label)

P370+P378 - In case of fire: Use Carbon dioxide, dry chemical, foam to extinguish

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to licensed waste handling facility

2.3. Other hazards

No additional information available

Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

Not applicable

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3.2. Mixture

Name	Product identifier	%
Diethylaminoethanol	(CAS No) 100-37-8	10 - 15
Cyclohexylamine	(CAS No) 108-91-8	1 - 5

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. Get medical attention immediately.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact

lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage. Harmful if swallowed. Suspected of damaging

fertility. Suspected of damaging the unborn child.

Symptoms/injuries after inhalation : May cause headache, nausea and irritation of respiratory tract.

Symptoms/injuries after skin contact : Harmful in contact with skin. Symptoms/injuries after eye contact : Causes serious eye burns.

Symptoms/injuries after ingestion : Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

Chronic symptoms : No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Alcohol-resistant foam. Dry powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid. Heating may cause a fire.

Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe mists. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethylaminoethanol (100-37-8)			
ACGIH TWA (ppm)	2 ppm		
OSHA PEL (TWA) (mg/m³)	50 mg/m ³		
OSHA PEL (TWA) (ppm)	10 ppm		
Cyclohexylamine (108-91-8)			
ACGIH TWA (ppm)	10 ppm		
OSHA PEL (TWA) (mg/m³)	40 mg/m³ Vacated		
OSHA PEL (TWA) (ppm)	10 ppm Vacated		

8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Protective goggles. Face shield. Protective clothing. Respiratory protection of the

dependent type.











Hand protection

: Protective gloves made of rubber.

Eye protection

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

: Corrosionproof clothing.

Skin and body protection Respiratory protection

: An approved organic vapour respirator/supplied air or self-contained breathing apparatus must

be used when vapour concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Clear.Color: Amber.Odor: Slight.

Odor Threshold : No data available 11.8 (1% solution) Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available : No data available Freezing point **Boiling point** 107 °C (225 °F) Flash point : > 60 °C (141 °F) Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) No data available Vapour pressure : 18 mm Hg Relative vapour density at 20 °C : No data available

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Relative density : 1.06

Solubility : Water: Complete Log Pow : No data available : No data available Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

9.2. Other informationNo additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Sparks. Heat. Open flame.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Soft metals (aluminum, copper, brass).

10.6. Hazardous decomposition products

Nitrogen oxides. Ammonia. Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Dermal: Harmful in contact with skin.

Diethylaminoethanol (100-37-8)		
LD50 oral rat	1300 mg/kg (Source: IUCLID)	
LD50 dermal rabbit	1260 μl/kg (Source: NLM_CIP)	
ATE CLP (oral)	500.000 mg/kg bodyweight	
ATE CLP (dermal)	1100.000 mg/kg bodyweight	
ATE CLP (gases)	4500.000 ppmv/4h	
ATE CLP (vapours)	11.000 mg/l/4h	
ATE CLP (dust,mist)	1.500 mg/l/4h	

Cyclohexylamine (108-91-8)		
LD50 oral rat	156 mg/kg	
LD50 dermal rat	277 mg/kg	
LC50 inhalation rat (ppm)	1000 ppm 16 h (vapor)	
ATE CLP (oral)	11.000 mg/kg bodyweight	
ATE CLP (dermal)	1100.000 mg/kg bodyweight	

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 11.8 (1% solution)

Serious eye damage/irritation : Not classified

pH: 11.8 (1% solution)

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

IARC group 3 - Not classifiable

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

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Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause headache, nausea and irritation of respiratory tract.

Symptoms/injuries after skin contact : Harmful in contact with skin. Symptoms/injuries after eye contact : Causes serious eye burns.

Symptoms/injuries after ingestion : Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

Chronic symptoms : No data available.

SECTION 12: Ecological information

12.1 Toxicity

: No data available. Ecology - general

12.2. Persistence and degradability

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Persistence and degradability	No data available.

12.3. **Bioaccumulative potential**

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Bioaccumulative potential	No information available.

12.4. Mobility in soil

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	Ecology - soil	No data available.

12.5. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods Do not discharge to public wastewater systems without permit of pollution control authorities.

No discharge to surface waters is allowed without an NPDES permit.

Dispose in a safe manner in accordance with local/national regulations. Do not allow the Waste disposal recommendations

product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

UN3267 Corrosive liquid, basic, organic, n.o.s. (Contains Diethylaminoethanol, Transport document description

Cyclohexylamine), 8, II

UN-No.(DOT) 3267 DOT NA no. : UN3267

Proper Shipping Name (DOT) : Corrosive liquid, basic, organic, n.o.s.

Department of Transportation (DOT) Hazard

Classes

: 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger

DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters",52 - Stow "separated from" acids

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Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

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All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
Diethylaminoethanol (100-37-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Cyclohexylamine (108-91-8)		

Cyclohexylamine (108-91-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	10000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb

15.2. International regulations

CANADA

No additional information available.

15.3. US State regulations

California Proposition 65

WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

Diethylaminoethanol ((100-37-8)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	
Cyclohexylamine (108-91-8)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

Diethylaminoethanol (100-37-8)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Cyclohexylamine (108-91-8)

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List

SECTION 16: Other information

Indication of changes : Revision 2.0
Revision date : 06/12/2015
Other information : Author. BN.

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NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was

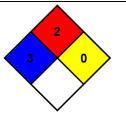
given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high

temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health: 3Flammability: 2Physical: 0Personal Protection:

We believe that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily adequate in every circumstance. These suggestions should not be confused with or followed in violation of applicable laws, regulations, rules or insurance requirements. The seller makes no warranty expressed or implied concerning the accuracy or any results obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.

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