

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/14/2018

Reviewed on 04/14/2018

**1 Identification**

- **Product Identifier**
- **Trade Name:** BUG ELIMINATOR™
- **Product Number:** K-52T
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Mid Alkaline cleaner
- **Application of the substance / the mixture:** Bug Cleaner
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Kaady Chemical Corp.  
2545 SW SPRING GARDEN ST STE 120  
PORTLAND, OR 97219  
1-510-562-9788  
www.kaadychemical.com
- **Emergency telephone number:** +1-800-424-9300

**2 Hazard(s) Identification**

- **Classification of the substance or mixture:**



Acute Tox. 4 H302 Harmful if swallowed.  
 Acute Tox. 4 H312 Harmful in contact with skin.  
 Acute Tox. 4 H332 Harmful if inhaled.  
 Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard-determining components of labeling:**  
Monoethanolamine
- **Hazard statements:**  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H319 Causes serious eye irritation.
- **Precautionary statements:**  
P261 Avoid breathing dust.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.

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- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P302+P352 If on skin: Wash with plenty of water.
- P304+P341 If inhaled: If breathing is difficult, 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.
- P314 Get medical advice/attention if you feel unwell.
- P332+P313 If skin irritation occurs: Get medical advice.
- P336 Thaw frosted parts with lukewarm water. Do no rub affected area.
- P362 Take off contaminated clothing.
- P370+P380 In case of fire: Evacuate area.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P410 Protect from sunlight.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.  
10 % of the mixture consists of component(s) of unknown toxicity.

- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Hazard(s) not otherwise classified (HNOC):** None known

**3 Composition/Information on Ingredients**

**· Non-hazardous components:**

Non-Hazardous Components >75%

**· Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with non-hazardous additions.

**· Dangerous Components:**

CAS: 34590-94-8	Dipropylene glycol monomethyl ether	<10%
RTECS: JM 1575000	Flam. Liq. 4, H227	

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CAS: 61789-40-0	Cocamidopropyl Betaine ⚠ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	<10%
CAS: 141-43-5 RTECS: KJ 5775000	Monoethanolamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Flam. Liq. 4, H227	<5%

**Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

**4 First-Aid Measures**

**Description of first aid measures:**

**After inhalation:**

Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

**After skin contact:**

Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Remove contaminated clothing and wash before reuse.

**After eye contact:**

Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do so. Get immediate medical attention.

**After swallowing:**

Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. Seek immediate medical attention.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

**5 Fire-Fighting Measures**

**Extinguishing media:**

**Suitable extinguishing agents:**

CO2, sand, dry chemical, water mist or alcohol resistant foam.

Use fire fighting measures that suit the environment.

**For safety reasons unsuitable extinguishing agents:** No further relevant information.

**Special hazards arising from the substance or mixture:**

Carbon oxides

Nitrogen oxides (NOx)

**Advice for firefighters:**

**Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

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**6 Accidental Release Measures**

- **Personal precautions, protective equipment and emergency procedures:**  
 Use personal protective equipment.  
 Keep from contacting skin or eyes.  
 Avoid breathing vapors, mist or gas.  
 Ensure adequate ventilation.  
 Evacuate personnel to safe areas.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**  
 Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
 Ensure adequate ventilation.  
 Dispose of the collected material according to regulations.
- **Reference to other sections:**  
 See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>		
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
141-43-5	Monoethanolamine	6 ppm
· <b>PAC-2:</b>		
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
141-43-5	Monoethanolamine	170 ppm
· <b>PAC-3:</b>		
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
141-43-5	Monoethanolamine	1,000 ppm

**7 Handling and Storage**

- **Handling**
- **Precautions for safe handling:**  
 Avoid breathing vapors or mist.  
 Avoid contact with eyes, skin, or clothing.  
 Keep containers closed when not in use.  
 Do not expose containers to open flame, excessive heat, or direct sunlight.  
 Do not puncture or drop containers.  
 Handle with care and avoid spillage on the floor (slippage).  
 Avoid release into the environment.  
 Keep material out of reach of children.  
 Keep material away from incompatible materials.  
 Wash thoroughly after handling.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.

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**Information about storage in one common storage facility:**

- Keep containers tightly closed.
- Do not store in direct sunlight.
- Keep away from heat, sparks and flames.
- Store away from strong acids.
- Store away from strong oxidizers.
- Do not store in Aluminum, Iron, Brass, Copper, Copper Alloys, Galvanized Containers, Nickel, Zinc, Carbon Steel or Rubber.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s):** No further relevant information available.

**8 Exposure Controls/Personal Protection**

**Additional information about design of technical systems:** No further data; see section 7.

**Control parameters:**

**Components with occupational exposure limits:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

**34590-94-8 Dipropylene glycol monomethyl ether**

PEL	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm Skin

**141-43-5 Monoethanolamine**

PEL	Long-term value: 6 mg/m <sup>3</sup> , 3 ppm
REL	Short-term value: 15 mg/m <sup>3</sup> , 6 ppm Long-term value: 8 mg/m <sup>3</sup> , 3 ppm
TLV	Short-term value: 15 mg/m <sup>3</sup> , 6 ppm Long-term value: 7.5 mg/m <sup>3</sup> , 3 ppm

**Additional information:** The lists that were valid during the creation of this SDS were used as basis.

**Exposure controls:**

**Personal protective equipment:**

**General protective and hygienic measures:**

- The usual precautionary measures for handling chemicals should be followed.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing and wash before reuse.
- Wash hands before breaks and at the end of work.

**Breathing equipment:**

Have self-contained breathing apparatus, positive pressure, MSHA/NIOSH (approved or equivalent) available in case of spillage or equipment failure.

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**Protection of hands:**



Protective gloves

- **Material of gloves:** Neoprene, Nitrile or Buna Rubber.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:**



Safety glasses with side shields

**9 Physical and Chemical Properties**

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

- Form:** Liquid
- Color:** Clear, Yellow
- Odour:** Lemon
- Odor threshold:** Not determined.

**pH-value @ 20 °C (68 °F):** 8-9

**Change in condition**

- Melting point/Melting range:** Not determined.
- Boiling point/Boiling range:** 100 °C (212 °F)

**Flash point:** None

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** Not applicable

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not self-igniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

- Lower:** Not determined.
- Upper:** Not determined.

**Vapor pressure:** Not determined.

**Density @ 20 °C (68 °F):** 1.025 g/cm<sup>3</sup> (8.554 lbs/gal)

**Relative density:** Not determined.

**Vapor density:** Not determined.

**Evaporation rate:** Not determined.

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- **Solubility in / Miscibility with:**  
**Water:** Fully Soluble
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**  
**Dynamic:** Not determined.  
**Kinematic:** Not determined.
- **Solvent content:**  
**Organic solvents:** <15.0 %  
**VOC content:** 9.44 %
- **Solids content:** 0.0 %
- **Other information:** No further relevant information available.

**10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
 No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Incompatibilities, flames, ignition sources.
- **Incompatible materials:**  
 Peroxides, Nitric Acid, Reactive Metals (Zinc or Aluminum), Strong Acids, Strong Oxidizing Agents.  
 Extended contact: Iron, Brass, Copper, Copper Alloys, Galvanized Containers, Nickel, Carbon Steel or Rubber.
- **Hazardous decomposition products:** Carbon Oxides, Nitrogen Oxides (NOx).

**11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

**34590-94-8 Dipropylene glycol monomethyl ether**

Oral	LD50	5,135 mg/kg (Rat)
Dermal	LD50	>19,000 mg/kg (rab)
Inhalative	LC50/96 hours	>10,000 mg/l (Pimephales)

**141-43-5 Monoethanolamine**

Oral	LD50	2,050 mg/kg (Rat)
Dermal	LD50	1,000 mg/kg (Rabbit)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.

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· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful  
Irritant

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**12 Ecological Information**

· **Toxicity:**

· **Aquatic toxicity:**

**34590-94-8 Dipropylene glycol monomethyl ether**

EC50 1.919 mg/l (Daphnia)

**61789-40-0 Cocamidopropyl Betaine**

EC50 1-10 mg/l (Green algae)

6.5 mg/l (Daphnia)

· **Persistence and degradability:** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects:** No further relevant information available.

**13 Disposal Considerations**

· **Waste treatment methods:**

· **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

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- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport Information**

- **UN-Number:**
- **DOT, ADR/ADN, ADN, IMDG, IATA**                      *Non-Regulated Material*
- **UN proper shipping name:**
- **DOT, ADR/ADN, ADN, IMDG, IATA**                      *Non-Regulated Material*
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:**    *Non-Regulated Material*
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA**                              *Non-Regulated Material*
- **Environmental hazards:**                                      *Not applicable.*
- **Special precautions for user:**                              *Not applicable.*
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**                      *Not applicable.*
- **UN "Model Regulation":**                                      *Non-Regulated Material*

**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

*None of the ingredients are listed.*

· **Section 313 (Specific toxic chemical listings):**

*None of the ingredients are listed.*

· **TSCA (Toxic Substances Control Act):**

34590-94-8 *Dipropylene glycol monomethyl ether*

61789-40-0 *Cocamidopropyl Betaine*

141-43-5 *Monoethanolamine*

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

*None of the ingredients are listed.*

· **Chemicals known to cause reproductive toxicity for females:**

*None of the ingredients are listed.*

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**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**· New Jersey Right-to-Know List:**

34590-94-8 Dipropylene glycol monomethyl ether

141-43-5 Monoethanolamine

**· New Jersey Special Hazardous Substance List:**

141-43-5 Monoethanolamine

CO, F2

**· Pennsylvania Right-to-Know List:**

34590-94-8 Dipropylene glycol monomethyl ether

141-43-5 Monoethanolamine

**· Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

**· Carcinogenic categories:**

**· EPA (Environmental Protection Agency):**

None of the ingredients are listed.

**· TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients are listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms:**



GHS07

**· Signal word: Warning**

**· Hazard-determining components of labeling:**

Monoethanolamine

**· Hazard statements:**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.

**· Precautionary statements:**

P261 Avoid breathing dust.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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P280	Wear protective gloves / eye protection / face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P302+P352	If on skin: Wash with plenty of water.
P304+P341	If inhaled: If breathing is difficult, 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.
P314	Get medical advice/attention if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice.
P336	Thaw frosted parts with lukewarm water. Do no rub affected area.
P362	Take off contaminated clothing.
P370+P380	In case of fire: Evacuate area.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P410	Protect from sunlight.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

None of the ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision:** 04/14/2018 / 19

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 4: Flammable liquids – Category 4

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**Trade Name: BUG ELIMINATOR™***Acute Tox. 4: Acute toxicity – Category 4**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A**Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B***\* Data compared to the previous version altered.**SDS created by MSDS Authoring Services [www.msdsauthoring.com](http://www.msdsauthoring.com) +1-877-204-9106

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