Material Safety Data Sheet



Kling

1. Product and company identification

Product name : Kling

Supplier : Betco Corporation

1001 Brown Avenue Toledo, Ohio 43607 (800) 333-2156

Manufacturer : Betco Corporation

1001 Brown Avenue Toledo, Ohio 43607

Code : 075 **MSDS**# : 075

 Validation date
 : 3/22/2012.

 Print date
 : 3/22/2012.

In case of emergency : Chemtrec (800) 424-9300

Product type : Liquid.

2. Hazards identification

Emergency overview

Physical state : Liquid.

Color : Blue.

Odor : Minty.

Signal word : DANGER!

Hazard statements : CAUSES SEVERE RESPIRATORY TRACT BURNS. CAUSES SEVERE EYE AND

SKIN BURNS. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN

DAMAGE, BASED ON ANIMAL DATA. Harmful if swallowed.

Precautionary measures: Do not breathe vapor or mist. Use only with adequate ventilation. Do not eat, drink or

smoke when using this product. Avoid contact with eyes, skin and clothing. Keep

container tightly closed. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

Inhalation : Severely corrosive to the respiratory system.Ingestion : May cause burns to mouth, throat and stomach.

Skin : Corrosive to the skin.

Eyes : Corrosive to eyes.

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Target organs : Contains material which may cause damage to the following organs: lungs, upper

respiratory tract, skin, eyes, teeth, testes.

Medical conditions aggravated by overexposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

Kling

2. Hazards identification

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
Hydrogen chloride	7647-01-0	5 - 10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. In case of contact with eyes, rinse immediately with plenty of

water.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes Skin contact

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

No specific treatment. Treat symptomatically. Contact poison treatment specialist Notes to physician

immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

Hazardous thermal decomposition products Decomposition products may include the following materials: halogenated compounds

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

3/22/2012. 075 2/8

6. Accidental release measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Ingredient	Exposure limits
Hydrogen chloride	ACGIH TLV (United States, 2/2010). C: 2 ppm OSHA PEL 1989 (United States, 3/1989). CEIL: 5 ppm CEIL: 7 mg/m³ NIOSH REL (United States, 6/2009). CEIL: 5 ppm CEIL: 7 mg/m³ OSHA PEL (United States, 6/2010). CEIL: 5 ppm CEIL: 7 mg/m³

8. Exposure controls/personal protection

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): butyl rubber

Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment (Pictograms)



9. Physical and chemical properties

Physical state : Liquid.

Flash point : Closed cup: >100°C (>212°F)

Color : Blue.
Odor : Minty.
pH : <1.5
Relative density : 1.047

Solubility : Easily soluble in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability

: The product is stable.

Conditions to avoid

No specific data.

Incompatible materials

: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.

Reactive or incompatible with the following materials:

alkalis

Kling

10. Stability and reactivity

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

Conclusion/Summary

: Not available.

Chronic toxicity

Conclusion/Summary

: Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hydrogen chloride	Eyes - Mild irritant	Rabbit	-	0.5 minutes 5 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 4 Percent	-

Conclusion/Summary

: Not available.

Sensitizer

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Hydrogen chloride	A4	3	-	-	-	-

Mutagenicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Hydrogen chloride	Acute LC50 240000 ug/L Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
	Acute LC50 282000 ug/L Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary

: Not available.

Persistence/degradability

Conclusion/Summary : Not available.

13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information PG* Label Regulatory **UN** number **Proper shipping** Classes Additional information name information **DOT Classification** 1760 Corrosive liquid, n.o.s. Not available. Limited quantity (Hydrogen chloride) Yes. Corrosive liquid, n.o.s. TDG Classification 1760 Not available. **Explosive Limit and** (Hydrogen chloride) **Limited Quantity** Index 1 Mexico 1760 Corrosive liquid, n.o.s. Not available. (Hydrogen chloride) Classification ADR/RID Class 1760 Corrosive liquid, n.o.s. Not available. Tunnel code (Hydrogen chloride) (E) **IMDG Class** 1760 Corrosive liquid, n.o.s. Not available. (Hydrogen chloride) 1760 IATA-DGR Class Corrosive liquid, n.o.s. Not available. (Hydrogen chloride)

PG*: Packing group

15. Regulatory information

HCS Classification

: Corrosive material Target organ effects

U.S. Federal regulations

: TSCA 8(a) PAIR: Nonylphenol polyethylene glycol ether TSCA 8(a) IUR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): Not determined.

SARA 302/304/311/312 extremely hazardous substances: Hydrogen chloride SARA 302/304 emergency planning and notification: Hydrogen chloride

SARA 302/304/311/312 hazardous chemicals: Hydrogen chloride SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Hydrogen chloride: Sudden release of pressure, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 311: Hydrogen chloride

Clean Air Act (CAA) 112 regulated flammable substances: Hydrogen chloride Clean Air Act (CAA) 112 regulated toxic substances: Hydrogen chloride

15. Regulatory information

Clean Air Act Section

Listed

112(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals (Essential Chemicals)

Listed

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Hydrogen chloride	7647-01-0	5 - 10
Supplier notification	Hydrogen chloride	7647-01-0	5 - 10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: HYDROGEN CHLORIDE

New York : The following components are listed: Hydrochloric acid

New Jersey : The following components are listed: HYDROGEN CHLORIDE; HYDROCHLORIC ACID

Pennsylvania: The following components are listed: HYDROCHLORIC ACID

California Prop. 65

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive		Maximum acceptable dosage level
ETHYL ALCOHOL	No.	Yes.	No.	No.

Canada inventory

: Not determined.

International regulations

International lists

: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined.

Japan inventory: Not determined. **Korea inventory**: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Chemical Weapons

Convention List Schedule I

: Not listed

Chemicals

Chemical Weapons

Convention List Schedule

: Not listed

II Chemicals

Chemical Weapons
Convention List Schedule

: Not listed

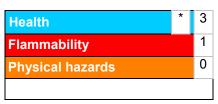
III Chemicals

16. Other information

Label requirements

CAUSES SEVERE RESPIRATORY TRACT BURNS. CAUSES SEVERE EYE AND SKIN BURNS. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. Harmful if swallowed.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Prepared by : Not available.

▼ Indicates information that has changed from previously issued version.

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