## **Material Safety Data Sheet**



AC114

## 1. Product and company identification

Product name : AC114

**Supplier** : Betco Corporation

1001 Brown Avenue Toledo, OH 43607 www.betco.com 888-462-3826

Synonym : Not available.

Trade name : Not available.

Material uses : Industrial applications: Acidic. Cleaning solutions.

**Manufacturer** : Betco Corporation

1001 Brown Avenue Toledo, Ohio 43607 www.betco.com 888-462-3826

Code : 114 MSDS# : 114

 Validation date
 : 3/30/2015.

 Print date
 : 3/30/2015.

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 : CORROSIVE. . CAUSES BURNS. . HARMFUL OR FATAL IF SWALLOWED.

CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON

ANIMAL DATA.

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.

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

Potential acute health effects

Inhalation : Irritating to mouth, throat and stomach. Irritating to respiratory system.

**Ingestion**: May cause burns to mouth, throat and stomach.

Skin : Severely irritating 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.

#### 2. Hazards identification

**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.

#### Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion : Not determined.

Skin : Adverse symptoms may include the following:

irritation redness

**Eyes** : Adverse symptoms may include the following:

irritation watering redness

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.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
Hydrochloric Acid methyl salicylate	7647-01-0 119-36-8	10 - 20 0.1 - 1

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.

Skin contact

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

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist 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 training.

**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.

Special remarks on fire hazards

: Not available.

Special remarks on explosion hazards

: Not available.

### 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.

## 7. Handling and storage

#### **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

Occupational exposure limits		TWA (8 hours) STEL (15 mins)		Ceiling							
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
	US ACGIH 4/2014 AB 4/2009 BC 4/2014 ON 1/2013 QC 1/2014	- - - -	- - - -	- - - -	- - - - 5	- - - - 7.5	- - - -	2 2 2 2 -	- 3 - -	- - -	[3]

[3]Skin sensitization

#### Consult local authorities for acceptable exposure limits.

## 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. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: splash goggles

## 8. Exposure controls/personal protection

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.

Recommended: safety apron

**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.

Other protection Not available.

**Personal protective** equipment (Pictograms)







## 9. Physical and chemical properties

**Physical state** : Liquid.

Flash point Closed cup: Not applicable. [Product does not sustain combustion.]

**Burning time** Not applicable. **Burning rate** : Not applicable. **Auto-ignition temperature** : Not available. Flammable limits : Not available.

Color : Blue. Odor : Minty.

**Taste** : Not available. **Molecular weight** : Not applicable. Molecular formula : Not applicable.

pН : <1 [Conc. (% w/w): 1%]

**Boiling/condensation point** : Not available. : Not available. **Melting/freezing point** : Not available. **Critical temperature** 

: 1.065 **Relative density** 

: Not available. Vapor pressure : Not available. Vapor density **Volatility** : Not available. **Odor threshold** : Not available. : Not available. **Evaporation rate** : Not available. **SADT** : Not available. **Viscosity lonicity (in water)** : Not available.

**Dispersibility properties** : Easily dispersible in the following materials: cold water and hot water.

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

: Not available. Physical/chemical properties comments

## 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

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

**Possibility of hazardous** 

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

reactions

## 11. Toxicological information

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
methyl salicylate	LD50 Oral	Rat	887 mg/kg	-

#### **Conclusion/Summary**

: Not available.

**Chronic toxicity** 

Not available.

**Conclusion/Summary** 

: Not available.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
methyl salicylate	Eyes - Severe irritant	Guinea pig	-	100 Percent	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Severe irritant	Guinea pig	-	100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

**Conclusion/Summary** 

: Not available.

Sensitizer

Not available.

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

Not available.

**Conclusion/Summary** 

: Not available.

**Classification** 

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

#### **Mutagenicity**

Not available.

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

Not available.

**Conclusion/Summary** 

: Not available.

Reproductive toxicity

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## 11. Toxicological information

Not available.

**Conclusion/Summary** : Not available. : Not available. Synergistic products

## 12. Ecological information

**Ecotoxicity** 

: No known significant effects or critical hazards.

#### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Hydrogen chloride	Acute LC50 240000 µg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
	Acute LC50 282 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

**Conclusion/Summary** 

Persistence/degradability

Not available.

**Conclusion/Summary** 

Partition coefficient: n-

octanol/water

**Bioconcentration factor Mobility** 

Toxicity of the products of

biodegradation

: Not available.

Other adverse effects : No known significant effects or critical hazards.

## 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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.

**Waste stream** : Not available. **RCRA** classification : Not available.

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

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	1760	Corrosive Liquids, N. O.S. (Hydrochloric Acid) RQ (Hydrogen chloride)	8	II	collective	Reportable quantity 38207.8 lbs / 17346.3 kg [4302.7 gal / 16287.6 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
TDG Classification	1760	Corrosive Liquids, N. O.S. (Hydrochloric Acid)	8	II		-
Mexico Classification	1760	Corrosive Liquids, N. O.S. (Hydrochloric Acid)	8	II		-
ADR/RID Class	1760	Corrosive Liquids, N. O.S. (Hydrochloric Acid)	8	II		Tunnel code (E)
IMDG Class	1760	Corrosive Liquids, N. O.S. (Hydrochloric Acid)	8	II		-
IATA-DGR Class	1760	Corrosive Liquids, N. O.S. (Hydrochloric Acid)	8	II		-

PG\*: Packing group

## 15. Regulatory information

United States inventory (TSCA 8b)

: All components are listed or exempted.

WHMIS (Canada)

: Class E: Corrosive material

**Canadian lists** 

Canadian NPRI : The following components are listed: Hydrochloric acid

**CEPA Toxic substances**: None of the components are listed.

**Canada inventory** : At least one component is not listed in DSL but all such components are listed in NDSL.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**International regulations** 

## 15. Regulatory information

International lists

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

**Chemical Weapons** 

**Convention List Schedule** 

**I Chemicals** 

**Chemical Weapons** 

**Convention List Schedule** 

**II Chemicals** 

**Chemical Weapons Convention List Schedule** 

**III Chemicals** 

: Not listed

: Not listed

: Not listed

## 16. Other information

: CORROSIVE. . CAUSES BURNS. . HARMFUL OR FATAL IF SWALLOWED. Label requirements

CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON

ANIMAL DATA.

**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.

: Not available. References : Not available. Other special

considerations

: 3/30/2015. Date of printing : 3/30/2015. **Date of issue** Date of previous issue : 3/4/2013.

**Version** 

: Not available. Prepared by

Indicates information that has changed from previously issued version.

**Notice to reader** 

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### 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.