

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/18/2014

Reviewed on 03/18/2014

1 Identification

- **Trade name:** HVAC CHEMSM METAL CLEANING DETERGENT - CONCENTRATE
- **Article number:** MCD, MCD-1G, MCD-5G, MCD-DR
- **MSDS Number:** 00255-HV-EN
- **UPC bar code(s):** 699913-10510, 699913-10515, 699913-10520
- **Relevant identified uses of the substance:** Metal Cleaning Detergent
- **Manufacturer/Supplier:**
USA ADDRESS:

KEMPER SYSTEM AMERICA, INC.
1200 NORTH AMERICA DR,
WEST SENECA, NY 14224
PH (716) 558-2971

CANADIAN ADDRESS:

KEMPER SYSTEM CANADA
13 -5200 DIXIE ROAD
MISSISSAUGA, ON L4W 1E4
PH (905) 624-5463
FAX (905) 624-2840

- **Information department:**
Tel: (716) 558-2971 ext. 228
www.hvacchem.com
- **Emergency telephone number:**
ChemTrec (800) 424-9300
Canada only: CANUTEC (Call collect) (613) 996-6666



2 Hazard(s) identification

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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).

- **Signal word:** Warning

- **Hazard statements:**

Causes skin irritation.

Causes serious eye irritation.

- **Precautionary statements:**

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

IF SWALLOWED: Call a POISON CENTER if you feel unwell.

IF ON SKIN: Wash with plenty of water.

(Contd. on page 2)

CA

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/18/2014

Reviewed on 03/18/2014

Trade name: HVAC CHEMSM METAL CLEANING DETERGENT - CONCENTRATE

(Contd. of page 1)

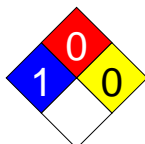
Take off contaminated clothing and wash it before reuse.

· **WHMIS-symbols:**

D2B - Toxic material causing other toxic effects



· **NFPA ratings (scale 0 - 4):**



Health = 1

Fire = 0

Reactivity = 0

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

68131-39-5	Ethoxylated C12-15 Alcohol	1-<3%
111-76-2	2-butoxyethanol	1-<3%
6834-92-0	disodium metasilicate	≤1%

· **Additional information:** Exact concentrations are being withheld as trade secrets.

4 First-aid measures

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If swallowed, do not induce vomiting. Get medical attention right away.

· **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

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture:** No further relevant information available.

· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:** Not required.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/18/2014

Reviewed on 03/18/2014

Trade name: HVAC CHEMSM METAL CLEANING DETERGENT - CONCENTRATE

(Contd. of page 2)

- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections:**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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 item 7.

- **Components with limit values that require monitoring at the workplace:**

111-76-2 2-butoxyethanol

EL ()	Long-term value: 20 ppm
EV ()	Long-term value: 20 ppm
	Skin

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

- **Form:** Liquid
- **Color:** Yellow
- **Odor:** Odorless

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/18/2014

Reviewed on 03/18/2014

Trade name: HVAC CHEMSM METAL CLEANING DETERGENT - CONCENTRATE

(Contd. of page 3)

· Odour threshold:	Not determined.
· pH-value at 20 °C:	11.4
· Change in condition Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C:	23 hPa
· Density:	Not determined.
· Relative density:	Not determined.
· Vapour density:	Not determined.
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content: Organic solvents:	1.6 %
Solids content:	7.4 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

-CA-

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/18/2014

Reviewed on 03/18/2014

Trade name: HVAC CHEMSM METAL CLEANING DETERGENT - CONCENTRATE

(Contd. of page 4)

11 Toxicological information

- **Information on toxicological effects:**

- **Acute toxicity**
- **Specific symptoms in biological assay:** No further relevant information available.
- **Primary irritant effect**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

111-76-2	2-butoxyethanol	3
----------	-----------------	---

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **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:**

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.

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:** Smaller quantities can be disposed of with household waste.

- **Uncleaned packagings**

- **Recommendation:**

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

CA

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/18/2014

Reviewed on 03/18/2014

Trade name: HVAC CHEMSM METAL CLEANING DETERGENT - CONCENTRATE

(Contd. of page 5)

14 Transport information

· UN-Number	
· DOT, TDG, ADN, IMDG, IATA	Not Available
· UN proper shipping name	
· DOT, TDG, ADN, IMDG, IATA	Not Available
· Transport hazard class(es)	
· DOT, TDG, ADN, IMDG, IATA	
· Class	Not Available
· Packing group	
· DOT, TDG, IMDG, IATA	Not Available
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· UN "Model Regulation":	-

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture	
· Sara	
· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency):	
111-76-2 2-butoxyethanol	NL
· TLV (Threshold Limit Value established by ACGIH):	
111-76-2 2-butoxyethanol	A3

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/18/2014

Reviewed on 03/18/2014

Trade name: HVAC CHEMSM METAL CLEANING DETERGENT - CONCENTRATE

(Contd. of page 6)

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Canadian substance listings**

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%):**

111-76-2	2-butoxyethanol
6834-92-0	disodium metasilicate

· **GHS label elements**

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

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

· **Precautionary statements**

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

IF SWALLOWED: Call a POISON CENTER if you feel unwell.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

16 Other information

This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. Kemper System America, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Kemper System America, Inc. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Kemper System America, Inc is an ISO 9001:2008 registered company.

· **Department issuing MSDS:** Product safety department

· **Contact:** Stephen Nowicki

(Contd. on page 8)

-CA-

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/18/2014

Reviewed on 03/18/2014

Trade name: HVAC CHEMSM METAL CLEANING DETERGENT - CONCENTRATE

(Contd. of page 7)

· Abbreviations and acronyms:

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)

WHMIS: Workplace Hazardous Materials Information System (Canada)

CA