

Safety Data Sheet Conforms to OSHA Hazard Communication Standard (HCS) 29CFR 1910.1200

Printing date 08/08/2014 Version number 3 Reviewed on 08/08/2014

1 Identification of the Substances/Preparation and of the Company/Undertaking

· Product identifier

· Product name: Clearlink 1080

 $\cdot \ Relevant \ identified \ uses \ of \ the \ substance \ or \ mixture \ and \ uses \ advised \ against$

Coating. Not for consumer application.

Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Dorf Ketal Chemicals LLC

11200 Westheimer Road

Suite 400

Houston, Texas 77042

Phone= +1 713 343 2377

Fax= +1 832 649 7615

Email: ehss@dorfketal.com

· Emergency telephone number:

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident) call Chemtrec at +1 (703) 527 3887 or Chemtrec India at 000-800-100-7141. DORF KETAL Emergency Control Room +91 22-65271001.

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

· OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

- · Label elements
- GHS label elements

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

Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard statements

Causes severe skin burns and eye damage.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 3

Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 3

Fire = 1

Other hazards No information available.

3 Composition/information on ingredients

· Chemical characterization: Substances

·components:

Aliphatic-Cyclic diamine

60 - 100%

4 First-aid measures

- Description of first aid measures
- General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

· Inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Skin Contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Remove contaminated clothing and shoes.

Wash clothing before reuse.

Clean shoes thoroughly before reuse.

Eve Contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

Ingestion:

Rinse out mouth and then drink plenty of water.

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Consult a physician if necessary.

Do not induce vomiting.

- · Most important symptoms and effects, both acute and delayed Causes severe burns to skin and eyes.
- · Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Treat symptomatically.

5 Fire-fighting measures

- Extinguishing media In case of fire use the following suitable extinguishing agent.
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters

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.

· Protective equipment:

Wear fully protective suit.

Wear self-contained respiatory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective clothing.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

Ensure adequate ventilation

· Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Stop leak if without risk.

Move containers from spill area.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

· Precautions for safe handling

Put on appropriate personal protective equipment.

Avoid contact with eyes, skin and clothing.

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Do not ingest.

Avoid breathing vapour or mist.

Ensure good ventilation/exhaustion at the workplace.

- 'Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Exposure controls
- Appropriate engineering controls:

Use local exhaust ventilation or other engineering control to maintain airborne levels below exposure limit requirement or guldelines.

If there are no applicable exposure limit requirement or guidelines, general ventilation should be sufficient for most operations.

Local exhaust ventillation may be necessary for some operations.

- · Personal protective equipment:
- General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Breathing equipment:

Where there is potential for airborne exposures, wear NIOSH approved respiratory protection.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

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· Solubility(water):

· Viscosity: Dynamic:

· Partition coefficient (n-octanol/water): No data available

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· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Goggles recommended during refilling.
- · Body protection: Protective work clothing

Information on basic physical and o	chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Characteristic	
Odour threshold:	No data available.	
pH-value at 20 °C (68 °F):	12.5	
Melting point/Freezing Point:	No data available	
Boiling point/Boiling range:	No data available	
Flash point:	104 °C (219 °F) (Closed cup)	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	No data available.	
Auto ignition temperature	No data available	
Explosion limits:		
Lower:	No data available.	
Upper:	No data available	
Oxidizing properties	No data available.	
Vapor pressure:	No data available.	
Relative density at 20 °C (68 °F)	0.858 g/cm ³ (7.16 lbs/gal)	
Vapour density	No data available	
Evaporation rate	No data available	

No data available.

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Kinematic:

No data available.

10 Stability and reactivity

- Reactivity Under normal conditions of storage and use, hazardous reactions will not occur.
- Chemical stability The product is stable under storage at normal ambient temperature.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid

Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

- Incompatible materials: Acids
- · Hazardous decomposition products:

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

11 Toxicological information

- 'Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification: No relevant information available.
- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- · Respiratory/ Skin sensitization: No sensitizing effects known.
- 'Germ cell mutagenicity: No known significant effects or critical hazards.
- · Carcinogenicity: No known significant effects or critical hazards.
- Reproductive toxicity: No known significant effects or critical hazards.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

- · Single dose toxicity: No known significant effects or critical hazard.
- · Repeated Dose toxicity No known significant effects or critical hazard.
- · Aspiration hazard Product is not classifed for aspiration hazard.

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Other relevant information: No data available

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment Not available
- Other adverse effects No further relevant information available.

13 Disposal Information

· Waste treatment methods

The generation of waste should be avoided or minimized whereverpossible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Recommendation:

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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

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· UN-Number · DOT, ADR, IMDG, IATA	UN2735
· UN proper shipping name · DOT · ADR · IMDG, IATA	Amines, liquid, corrosive, n.o.s. (Aliphatic-Cyclic diamine) 2735 Amines, liquid, corrosive, n.o.s. (Aliphatic-Cyclic diamine) AMINES, LIQUID, CORROSIVE, N.O.S. (Aliphatic-Cyclic diamine)

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· Transport hazard class(es)			
· DOT, IMDG, IATA			
·Class	8 Corrosive substances	8 Corrosive substances	
· Label	8		
· ADR			
·Class	8 (C7) Corrosive substances		
·Label	8		
Packing group			
DOT, ADR, IMDG, IATA	Ш		
· Environmental hazards:			
· Marine pollutant:	No		
Special precautions for user	Warning: Corrosive substances		
Danger code (Kemler):	80		
EMS Number:	F-A,S-B		
· Segregation groups	Alkalis		
Transport in bulk according to Annex	II of		
MARPOL73/78 and the IBC Code	Not applicable.		

15 Regulatory information

Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Not determined.

Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

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· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

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

Substance is not listed.

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

16 Other information

File name: Clearlink 1080 SDS US en AUG-08-2014

Superseded SDS date: MAY-17-2014

Change History: Component information updated.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

APF = Assigned protection factor

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

IOELV: Indicative Occupational Exposure Limit Values

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

· Disclaimer:

The data and recommendations presented in this data sheet concerning the use of our product and the materials contain there in are believed to be accurate and are based on information which is considered reliable as of the date hereof. However, the customer should determine the suitability of much material for his purpose before adopting them on a commercial scale. Since the use our product by others is beyond our control, no guarantee, express or implied, is made and no responsibility assumed for the use of this material or the results to be obtained there from. Information on this document is furnished for the purpose of compliance with Government Health and Safety Regulations and shall not be used for any other purposes. Moreover, the recommendations contained in this Safety Data Sheet are not to be constructed as a license to operate under, or a recommendation to infringe, any existing patents, nor should they be confused with state, municipal or insurance requirements, or with national safety codes.

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