Safety Data Sheet
Comperlan® KD

Revision date: 2015/09/21
Version: 4.0

1. Identification

Product identifier used on the label

Comperlan® KD

Recommended use of the chemical and restriction on use

Recommended use*: Chemical

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
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Col. CD. De Los Deportes, C.P. 03710,
MEXICO

Telephone: +52 55 5325 2600

Emergency telephone number

Tel.: +1-800-849-5204 or +1-833-229-1000
CHEMTREC Int.: +1-703-527-3887

Other means of identification

Synonyms: Fatty acid amide

2. Hazards Identification


Classification of the product

<table>
<thead>
<tr>
<th>Classification</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr./Irrit.</td>
<td>2</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Eye Dam./Irrit.</td>
<td>1</td>
<td>Serious eye damage/eye irritation</td>
</tr>
<tr>
<td>STOT RE</td>
<td>2</td>
<td>Specific target organ toxicity — repeated exposure</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>2</td>
<td>Hazardous to the aquatic environment - acute</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>2</td>
<td>Hazardous to the aquatic environment - chronic</td>
</tr>
</tbody>
</table>

Label elements
Pictogram:

Signal Word:
Danger

Hazard Statement:
H318 Causes serious eye damage.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):
P280 Wear protective gloves and eye/face protection.
P273 Avoid release to the environment.
P260 Do not breathe dust/gas/mist/vapours.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P391 Collect spillage.
P362 + P364 Take off contaminated clothing and wash before reuse.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

Labeling of special preparations (GHS):
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 - 8 % dermal
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 1 % oral


Emergency overview

WARNING:
Causes serious eye irritation.
Causes skin irritation.
Contains a suspect carcinogen.
Avoid contact with the skin, eyes and clothing.
3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-83-4</td>
<td>&gt;= 15.0 - &lt; 25.0%</td>
<td>N,N-bis(2-hydroxyethyl)oleamide</td>
</tr>
<tr>
<td>111-42-2</td>
<td>&gt;= 5.0 - &lt; 7.0%</td>
<td>2,2'-iminodiethanol</td>
</tr>
<tr>
<td>111-82-0</td>
<td>&gt;= 1.0 - &lt; 5.0%</td>
<td>Dodecanoic acid, methyl ester</td>
</tr>
<tr>
<td>68155-06-6</td>
<td>&gt;= 50.0 - &lt;= 100.0%</td>
<td>Amides, C12-18, N,N-bis(hydroxyethyl)</td>
</tr>
<tr>
<td>112-62-9</td>
<td>&gt;= 1.0 - &lt; 3.0%</td>
<td>methyl oleate</td>
</tr>
<tr>
<td>67-56-1</td>
<td>&gt;= 0.3 - &lt; 1.0%</td>
<td>Methanol</td>
</tr>
</tbody>
</table>


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<td>Amides, C12-18, N,N-bis(hydroxyethyl)</td>
</tr>
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</table>

4. First-Aid Measures

Description of first aid measures

General advice:
If adverse health effects develop seek medical attention.

If inhaled:
Remove victim to fresh air and away from exposure immediately. If breathing has stopped, administer artificial respiration. Immediate medical attention required.

If on skin:
After contact with skin, wash immediately with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Immediate medical attention required.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open. Do not rub eyes; mechanical action may cause corneal damage. Immediate medical attention required.

If swallowed:
Do not induce vomiting. Call a poison control center or physician for treatment advice. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed
Note to physician
Treatment: Treat symptomatically.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, carbon dioxide, dry powder, foam

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters
Further information:
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Use personal protective clothing.

Environmental precautions
Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up
For small amounts: Pick up with suitable absorbent material.
For large amounts: Dike spillage. Pump off product.
Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stove-lacquer EHD0022, Stove-lacquer 79/14/3 (Müller/CH), Polypropylene (PP), High density polyethylene (HDPE), Galvanized carbon steel (Zinc), Carbon steel (Iron)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.
Below temperature limit the product properties will change. The property change is reversible by stirring and heating. Please refer to the product specific data sheet for further information.
Storage stability:
Storage temperature: 20 - 30 °C
Protect against moisture.
Protect from temperatures below: 20 °C
Below the temperature limit, the product is no longer pumpable.
Protect from temperatures above: 30 °C
Properties of the product change irreversibly on exceeding the limit temperature.

8. Exposure Controls/Personal Protection

**Components with occupational exposure limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure limits</th>
<th>TWA value</th>
<th>STEL value</th>
<th>Skin Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>TWA value</td>
<td>200 ppm</td>
<td>260 mg/m3</td>
<td>Skin Designation</td>
</tr>
<tr>
<td></td>
<td>STEL value</td>
<td>250 ppm</td>
<td>310 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Designation</td>
<td></td>
<td></td>
<td>The substance can be absorbed through the skin.</td>
</tr>
<tr>
<td></td>
<td>NIOSH Pocket Guide to Chemical Hazards (US)</td>
<td>REL value</td>
<td>200 ppm</td>
<td>260 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL value</td>
<td>250 ppm</td>
<td>325 mg/m3</td>
</tr>
<tr>
<td>2,2’-iminodiethanol</td>
<td>REL value</td>
<td>3 ppm</td>
<td>15 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIOSH Pocket Guide to Chemical Hazards (US)</td>
<td>REL value</td>
<td>3 ppm</td>
<td>15 mg/m3</td>
</tr>
</tbody>
</table>

**Advice on system design:**
Ensure adequate ventilation.

**Personal protective equipment**

**Respiratory protection:**
Not applicable with adequate ventilation. Wear a NIOSH-certified (or equivalent) respirator as necessary. Follow manufacturer's recommendations.

**Hand protection:**
Rubber gloves

**Eye protection:**
Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

**Body protection:**
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:**
Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Conditions to avoid
See MSDS section 7 - Handling and storage.
Incompatible materials
No substances known that should be avoided.

Hazardous decomposition products
Decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Primary routes of entry
Dermal contact.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. May be harmful if swallowed in large quantities. Higher temperatures may generate vapor levels sufficient to cause irritation of the respiratory tract.

Oral
Type of value: LD50
Species: rat
Value: > 5,000 mg/kg (Directive 84/449/EEC, B.1)

Dermal
Type of value: LD50
Species: rabbit (male/female)
Value: > 2,000 mg/kg (other)

Assessment other acute effects
Assessment of STOT single:
Based on available Data, the classification criteria are not met.

Irritation / corrosion
Assessment of irritating effects: May cause severe damage to the eyes. Skin contact causes irritation.

Skin
Species: rabbit
Result: Irritant.
Method: OECD Guideline 404

Eye
Species: rabbit
Result: Severely irritating.
Method: Draize test

Sensitization
Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Aspiration Hazard
No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Information on: 2,2'-iminodiethanol
Assessment of repeated dose toxicity: Repeated oral exposure may affect certain organs. The substance may cause damage to the upper respiratory tract after repeated inhalation, as shown in animal studies.

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Genetic toxicity
Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity
Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Information on: 2,2'-iminodiethanol
Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats and mice a carcinogenic effect was observed. Not Likely to Be Carcinogenic to Humans.

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Reproductive toxicity
Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity
Assessment of teratogenicity: No data was available concerning toxicity to development.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

12. Ecological Information

Toxicity

Toxicity to fish
LC50 > 1 - 10 mg/l, Brachydanio rerio (DIN EN ISO 7346-2)
Chronic toxicity to fish
No observed effect concentration (28 d) > 0.1 - 1 mg/l, Oncorhynchus mykiss (Flow through.)
The product has not been tested. The statement has been derived from substances/products of a
similar structure or composition.

Chronic toxicity to aquatic invertebrates
No observed effect concentration (21 d) > 0.01 - 0.1 mg/l, Daphnia magna
The product has not been tested. The statement has been derived from substances/products of a
similar structure or composition.

Microorganisms/Effect on activated sludge
Toxicity to microorganisms
OECD Guideline 209 bacterium/EC0: > 100 mg/l

Persistence and degradability
Assessment biodegradation and elimination (H2O)
Readily biodegradable (according to OECD criteria).

Bioaccumulative potential
Assessment bioaccumulation potential
No data available.

Mobility in soil
Assessment transport between environmental compartments
not applicable

13. Disposal considerations

Waste disposal of substance:
Must be disposed of or incinerated in accordance with local regulations.

14. Transport Information

Land transport
TDG
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains AMIDES, C12/C18 AND C18-UNSATD,, N,N-
BIS(HYDROXYETHYL))
Air transport
IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains AMIDES, C12/C18 AND C18-UNSATD., N,N-BIS(HYDROXYETHYL))

15. Regulatory Information

Federal Regulations

Not applicable

NFPA Hazard codes:
Health: 3  Fire: 1  Reactivity: 0  Special:

HMIS III rating
Health: 3  Flammability: 1  Physical hazard: 0

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2015/09/21

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