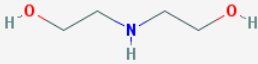


<p>Score: 10</p>	<p>DIETHANOLAMINE</p>															
<p>Data available: Fair</p>	<p>Health Concerns of the Ingredient:</p> <p style="text-align: right;">low moderate high</p>															
<p>Summary</p>	<p>Overall Hazard <input type="text"/></p>															
<p>Products</p>	<p>Cancer <input type="text"/></p>															
<p>Use restrictions</p>	<p>Developmental & reproductive toxicity <input type="text"/></p>															
<p>Cancer</p>	<p>Allergies & immunotoxicity <input type="text"/></p>															
<p>Allergies/immunotoxicity</p>	<p>Use restrictions</p>															
<p>Organ system toxicity (non-reproductive)</p>	<p>Other HIGH concerns: Contamination concerns, Irritation (skin, eyes, or lungs), Organ system toxicity (non-reproductive), Occupational hazards</p>															
<p>Occupational hazards</p>	<p>About DIETHANOLAMINE: Diethanolamine is an aliphatic amine.</p>															
<p>Developmental/reproductive toxicity</p>	<p>Function(s): pH Adjuster</p>															
<p>Irritation (skin, eyes, or lungs)</p>	<p>Synonym(s): 2,2'-DIHYDROXYDIETHYLAMINE; 2,2'-IMINOBISETHANOL; 2,2'-IMINODIETHANOL; DEA (EWG) ; ETHANOL, 2,2 IMINOBI; N,N-DIETHANOLAMINE; 2,2'-DIHYDROXYDIETHYLAMINE; 2,2'-IMINOBISETHANOL; 2,2'-IMINODIETHANOL; 2-(2-HYDROXYETHYLAMINO) ETHANOL; BIS (2-HYDROXYETHYL) AMINE</p>															
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Concern	Reference
One or more animal studies show effects at moderate doses (low dose studies may be unavailable for this ingredient)	EPA Categorized List of Inert Pesticide Ingredients
One or more animal studies show classified as toxic effects at moderate doses (low dose studies may be unavailable for this ingredient)	EPA Toxic Release Inventory PBTs

Occupational hazards

Concern	Reference
Allowed workplace exposures restricted to low doses	European Union - Classification & Labelling

Developmental/reproductive toxicity

Concern	Reference
One or more animal studies show neurodevelopmental effects at moderate doses	Craciunescu CN, Wu R, Zeisel SH


Irritation (skin, eyes, or lungs)

Concern	Reference
Classified as irritant	European Union - Classification & Labelling
Limited evidence of skin irritation	National Library of Medicine HazMap

Data gaps

Concern	Reference
1,963 studies in PubMed science library may include information on the toxicity of this chemical see search results ->	NLM PubMed

Contamination concerns

Impurity	Score
NITROSAMINES	 Data: Fair

Data Sources

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Craciunescu CN, Wu R, Zeisel SH. "Diethanolamine alters neurogenesis and induces apoptosis in fetal mouse hippocampus." FASEB J. 2006 Aug;20(10):1635-40.

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<http://ntp-server.niehs.nih.gov/NewHomeRoc/11thConsideration.html>
National Toxicology Program. Summary for Agents, Substances, Mixtures or Exposure Circumstances to be Reviewed in 2004-2005 for Possible Listing in the Report on Carcinogens, Twelfth Edition. NTP Board of Scientific Counselors, NTP, Research Triangle Park, NC.
<http://ntp-server.niehs.nih.gov/NewHomeRoc/12thConsideration.html>

US EPA, Air Risk Information Support Center. Health Effects Notebook for Hazardous Air Pollutants.
<http://www.epa.gov/ttnatw01/hlthef/hapindex.html>, A Relational Database of Hazardous Chemicals and Occupational Diseases. Browse Haz-Map by Adverse Effects <http://hazmap.nlm.nih.gov/hazmapadv.html>

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World Health Organization, International Agency for Research on Cancer. IARC Monographs Programme on the Evaluation of Carcinogenic Risks to Humans. Lists of Group 1, 2a, and 2b substances can be obtained.
<http://monographs.iarc.fr/ENG/Classification/index.php>

About the ratings

EWG provides information on personal care product ingredients from the published scientific literature, to supplement incomplete data available from companies and the government. The ratings below indicate the relative level of concern posed by exposure to the ingredients in this product - not the product itself - compared to other product formulations. The ratings reflect potential health hazards but do not account for the level of exposure or individual susceptibility, factors which determine actual health risks, if any.
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