

**DEFEND
Desensitizer****SECTION 1 : Identification of the substance/mixture and of the supplier****Product name:** DEFEND Desensitizer**Manufacturer/Supplier Trade name:** DEFEND Desensitizer**Manufacturer/Supplier Article number:** #DD-1000**Recommended uses of the product and restrictions on use:****Manufacturer Details:****Mydent International****80 Suffolk Court****Hauppauge, NY 11788****T: 631-434-3190 F: 631-434-7750 | sales@defend.com****Emergency telephone number:****ChemTrec Inc 1-800-424-9300, 703-527-3887 (CHEMTREC)****SECTION 2 : Hazards Identification****Classification of the substance or mixture:****Corrosive**

Serious eye damage, category 1

Skin corrosion, category 1B

**Irritant**

Skin sensitization, category 1

**Health hazard**

Respiratory sensitization, category 1

Serious eye damage/eye irritation - Category 1

Skin Corrosion/Irritation - Category 1B

Respiratory sensitization - Category 1

Skin sensitization - Category 1

Signal word : Danger**Hazard statements:**

Causes severe skin burns and eye damage

Causes serious eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

Precautionary statements:

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Wash skin thoroughly after handling

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

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Do not breath dust/fume/gas/mist/vapours/spray

Contaminated work clothing should not be allowed out of the workplace

In case of inadequate ventilation wear respiratory protection

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

Immediately call a POISON CENTER or doctor/physician

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

If exposed or concerned: Get medical advice/attention

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

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

Wash contaminated clothing before reuse

Store locked up

Dispose of contents and container as instructed in Section 13

Other Non-GHS Classification

WHMIS

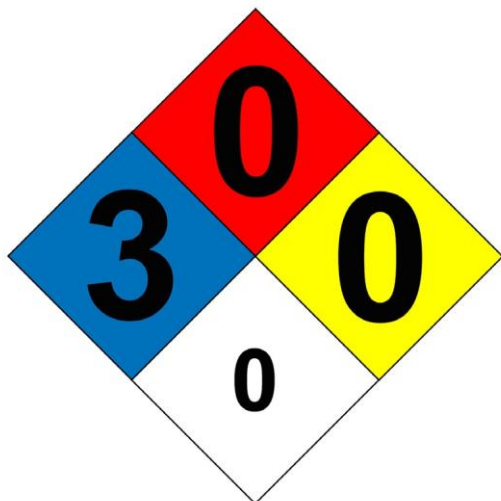
D2B



E



NFPA/HMIS



NFPA SCALE (0-4)

Health	3
Flammability	0
Physical Hazard	2
Personal Protection	X

HMIS RATINGS (0-4)

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SECTION 3 : Composition/information on ingredients

Ingredients:

CAS 7732-18-5	Water	50-74 %
CAS 111-30-8	Glutaraldehyde	1-5 %
CAS 868-77-9	Hydroxylethyl Methacrylate	25-45 %
Percentage are by weight		

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After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

After skin contact: Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention immediately.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Nausea. Shortness of breath.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5 : Firefighting measures**Extinguishing media**

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: None identified.

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eyewear, gloves, and clothing. Refer to Section 8. Use NIOSH- approved respiratory protection/breathing apparatus.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6 : Accidental release measure**Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation. Ensure that air-handling systems are operational.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

Reference to other sections:**SECTION 7 : Handling and storage****Precautions for safe handling:**

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke or use personal products when handling chemical substances.

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Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

SECTION 8 : Exposure controls/personal protection**Control Parameters:**

111-30-8, Glutaraldehyde, ACGIH TLV 0.05 ppm Ceiling (activated and inactivated)
111-30-8, Glutaraldehyde, OSHA PEL 0.2 ppm Ceiling; 0.8 mg/m³ Ceiling

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a back up to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used technique without touching outer surface. Avoid skin contact with gloves. Wear protective clothing.

Eye protection:

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection.

General hygiene measures:

Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

SECTION 9 : Physical and chemical properties

Appearance (physical state, color):	Clear Liquid	Explosion limit lower; Explosion limit upper;	Not applicable Not applicable
Odor:	Not Determined	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	Not Determined	Relative density:	Not Determined
Melting/Freezing point:	Not Determined	Solubilities:	Soluble
Boiling point/Boiling range:	Not Determined	Partition coefficient (n-octanol/water):	Not Determined
Flash point (closed cup):	Not Determined	Auto/Self-ignition temperature	Not Determined

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Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid, gaseous)	Not flammable	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity: Nonreactive under normal conditions.

Chemical stability: Stable under normal conditions.

Possible hazardous reactions: None identified.

Conditions to avoid: Incompatible materials. Prolonged Extreme Heat. Free radical initiators.

Incompatible materials: Contact with iron.

Hazardous decomposition products: Not determined.

SECTION 11 : Toxicological information

Acute Toxicity:

Dermal:	111-30-8	LD50 Rabbit 560 µL/kg (Source: NLM_CIP)
Inhalation	111-30-8	LC50 Rat 0.1mg/L 4 h (source: IUCLID)
Oral:	111-30-8	LD50 Rat 252 mg/kg (Source: NLM_CIP)
Dermal:	868-77-9	Dermal LD50 Rabbit > 3000 mg/kg (Source: IUCLID)
Oral:	868-77-9	LD50 Rat 5050 mg/kg (Source: NLM_CIP)

Chronic Toxicity: No additional information.

Corrosion Irritation:

Ocular:	[Commission of the European Communities. Legislation on Dangerous Substances - Classification and Labelling in the European Communities. Vol. II. London and Trotman Ltd., 1989., p. 404] @**PEER REVIEWED**	Irritating to eyes and skin.
Ocular:	[Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 1864] **PEER REVIEWED**	Glutaral - A severe eye and human skin irritant.

Sensitization:

Single Target Organ (STOT):

Numerical Measures:

Carcinogenicity:

Mutagenicity:

Reproductive Toxicity:

No additional information.

No additional information.

No additional information.

No additional information.

No additional information.

No additional information.

SECTION 12 : Ecological information

Ecotoxicity

111-30-0 : Freshwater algae: 72 Hr EC50 Desmodesmus subspicatus: 0.61 mg/L; 96 Hr EC50 Desmodesmus subspicatus 0.84 mg/L

868-77-9 : Freshwater fish: 96 Hr LC50 Pimephales promelas: 213 -0242 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 227 mg/L

Persistence and degradability: Not determined.

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Bioaccumulative potential: Not determined.

Mobility in soil: Not determined.

Other adverse effects: None identified.

SECTION 13 : Disposal considerations**Waste disposal recommendations:**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14 : Transport information**UN-Number**

Not Regulated

UN proper shipping name

Not Regulated Transport

hazard class(es) Packing

group: Not Regulated

Environmental hazard:**Transport in bulk:****Special precautions for user:****SECTION 15 : Regulatory information****United States (USA)****SARA Section 311-312 (Specific toxic chemical listings):**

Acute

SARA Section 313 (Specific toxic chemical listings):

111-30-8 Glutaraldehyde

868-77-9 Hydroxyethyl Methacrylate

RCRA (hazardous waste code):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

1310-58-3 Potassium hydroxide 1000 lbs

123-31-9 Hydroquinone 100 lbs

Proposition 65 (California):**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

**DEFEND
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All ingredients are listed

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full TEXT Phrases:**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

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