

EZ-Mix™ Granular Coil Cleaner™ for Condenser Coils

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: EZ-Mix™ Granular Coil Cleaner™ for Condenser Coils

Manufactured by: Diversitech

6650 Sugarloaf Parkway, Duluth, GA 30097

Phone: 800-995-2222 (Product Information)

Phone: 800-255-3924 (CHEM-TEL, Chemical Emergencies Only)

Revised: 05/25/2012

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2. HAZARDS IDENTIFICATION



Corrosive Irritant

Inhalation:

Severe irritant. Effects from inhalation of solution mists vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur.

Ingestion:

Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appear days after exposure.

Skin Contact:

Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

Eye Contact:

Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

Chronic Exposure:

Prolonged contact with dilute solutions or mists may have a destructive effect upon tissue.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

3. COMPOSITION / INFORMATION INGREDIENTS

Ingredient	CAS No.	EINECS No.	% Or Range	Hazard Symbol	Risk Phrases
Sodium carbonate	497-19-8	231-867-5	5-10	Xi, Xn	R- 32, 36/37/38, 41, 51/53
Sodium hydroxide	1310-73-2	231-659-4	70-80	C, Xi	R-34, 35, 36/38

See Section 15 for information on Risk Phrases.

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4. FIRST AID

Inhalation:

Remove affected individual to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Note to Physician:

Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately. Wash clothing before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. FIREFIGHTING MEASURES

Not considered to be a fire hazard. Hot or molten material can react violently with water.

Can react with certain metals, such as aluminum, to generate flammable hydrogen gas.

Explosion:

May cause fire and explosions when in contact with incompatible materials.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Adding water to sodium hydroxide generates large amounts of heat.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with a full face-piece operated in the pressure demand or other positive pressure mode.

6. SPILL/ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Sweep up, recover and recycle spilled product when possible. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal. Do not use aluminum tools to collect absorbed material or aluminum containers to store collected wastes. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Remove contaminated clothing immediately. Remove unnecessary personnel from the area of the spill.

7. HANDLING AND STORAGE

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Store above 16C (60F) to prevent freezing. Always add the product to water while stirring; never the reverse. Containers of this material may be hazardous when empty since they may retain product residues observe all warnings and precautions listed for the product. Do not store with aluminum or magnesium. Do not mix with acids or organic materials. Keep this and all chemicals out of the reach of children. Wash hands thoroughly after handling.

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8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL): 15 mg/m³ Ceiling

ACGIH Threshold Limit Value (TLV): 15 mg/m³ Ceiling

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities or a source of running water in the work area.

Work Hygienic Practices: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating, smoking or using the toilet.

9. PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance: Granular blue solid

Odor: Odorless

Odor threshold: N/A

pH of 1% solution: 12.5

Melting point/freezing point: Not applicable

Initial boiling point and boiling range: Not applicable

Flash point: Not applicable

Evaporation rate: Not applicable

Flammability limits %: Not applicable

Vapor pressure: @20°C Not applicable

Vapor density: Not applicable

Relative density: ~2

Solubility: 100% soluble in water

Partition Coefficient: n-octanol/water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

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Viscosity: Not applicable

Explosive properties: Not applicable

Oxidizing properties: Not applicable

N/A = Data not available

10. STABILITY and REACTIVITY DATA

Stability: Stable under ordinary use and storage conditions.

Hazardous Decomposition Products: Sodium oxide. Decomposition by reaction of solutions of this product with non-ferrous metals may release hazardous quantities of flammable and explosive hydrogen gas.

Hazardous Polymerization: Will not occur.

Incompatibilities: Sodium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may cause violent reactions. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Contact with metals such as aluminum, magnesium, tin, and zinc cause formation of flammable hydrogen gas. Sodium hydroxide, even in fairly dilute solution, reacts readily with various sugars to produce carbon monoxide.

Conditions to Avoid: Heat, incompatible materials.

11. TOXICOLOGY INFORMATION

Sodium hydroxide irritation data: skin, rabbit: 500 mg/24H severe; eye rabbit: 50 ug/24H severe.

Investigated as a mutagen.

NTP Carcinogen: No

12. ECOLOGICAL INFORMATION

Environmental Fate of Mixture:

No information

Environmental Toxicity of Mixture:

No information

13. DISPOSAL CONSIDERATIONS

Triple rinse empty containers before disposing of them as trash.. Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORTATION INFORMATION

US DOT:

For inner containers with a net weight of less than 2.2 pounds: **Consumer Commodity, ORM-D**

Note: The maximum net weight of the ORM-D product may not exceed 550 pounds per pallet.

For containers with a net weight greater than 2.2 pounds: Corrosive solid, Basic, Inorganic, n.o.s. (contains sodium hydroxide), 8, UN3262, PGII

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UN Number: UN3262

UN Proper Shipping Name: Corrosive solid, Basic, Inorganic, n.o.s. (contains sodium hydroxide)

Transport Hazard Class(es): 8

Packing group: II

Environmental Hazards: Not a marine pollutant

ADR/RID Transport Information ADR/RID Class None Allocated

ADR/RID Packing Group None Allocated

IMDG Hazard Class None Allocated

IMDG Packing Group None Allocated

ADNR Class None Allocated

ADNR Item None Allocated

IATA Hazard Class None Allocated

IATA Packing Group None Allocated

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

EmS: F-A,S-B

15. REGULATORY INFORMATION



Corrosive Irritant

EC Classification: C6

Risk phrases:

R32: Contact with acids liberates very toxic gas

R34: Causes burns.

R35: Causes severe burns

R36/37/38: Irritating to eyes, respiratory system and skin

R41: Risk of serious damage to eyes

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases

S2: Keep out of reach of children

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US EPA

Comprehensive Environmental Response Compensation and Liability

Act of 1980 (CERCLA) requires notification of the National Response Center of release quantities of Hazardous Substances is not required for this material.

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Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355 (used for SARA 302, 304, 311, and 312) is not required for quantities below 250 pounds.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This material is not subject to reporting requirements.

Toxic Substances Control Act (TSCA) Status: The ingredients of this product are on the TSCA inventory.

State Right to Know

California Proposition 65:

Massachusetts: Hazardous substances and extraordinarily hazardous substances must be identified.

Pennsylvania: Hazardous substances must be identified.

California SCAQMD Rule 443.1 (VOC's)

Chemical Inventory Status

Ingredient	TSCA	EC	Japan	Australia	Korea	DSL	NDSL	Phil.
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Sodium Hydroxide (1310-73-2)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
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Federal, State & International Regulations

	SARA 302	SARA 313	TSCA	CERCLA	261.33	8(d)
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Ingredient	RQ	TPQ	Chemical	RCRA	List -
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Sodium Hydroxide (1310-73-2)	No	No	No	1000	No	No
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Chemical Weapons Convention: No

TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes (Mixture / Liquid)

Australian Hazchem Code: 2R

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION:

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 0

Label Hazard Warning:

CORROSIVE, POISON! Contains sodium hydroxide. May be fatal if swallowed. Harmful if inhaled. May cause burns to skin and eyes.

Label Precautions:

Do not use this product without skin and eye protection.

Do not use this product until you have read all warning statements on bottle and consulted the Safety Data Sheet

Do not use this product unless a source of running water is available.

Keep container closed.

Wash hands thoroughly after use.

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Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Immediately drink 3-4 glasses of water followed by a large glass of citrus juice. Call a physician immediately. Eyes: flush eyes with running water for at least 15 minutes while lifting lids to rinse the area behind the eyelids. Skin: flush affected area with running water for at least 15 minutes or until skin no longer feels slick while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing does not return to normal within a few minutes, get medical attention.

Product Use:

Air conditioning and refrigeration coil cleaner

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement