

SAFETY DATA SHEET

LANDA Coil Clean

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

MANUFACTURER: Griffin Bros., Inc.
P.O. BOX 7719
Salem, OR 97303
(800) 456-4743

INFORMATION PHONE: (800) 456-4743

EMERGENCY PHONE: CHEMTREC: (800) 424-9300

PRODUCT NAME: LANDA Coil Clean

PRODUCT NUMBER: AM-255

DATE PREPARED: 07/06/07

LAST REVISION: 04/20/2015

SYNONYMS: Concentrated Scale & Deposit Remover

DISTRIBUTOR: Kärcher North America, Inc.
4275 NW Pacific Rim Blvd
Camas, WA 98648

Uses: For removing scale from heat exchange surfaces.

Restrictions: All other applications

PURE: LIQUID:

MIXTURE: SOLID:

2. HAZARDOUS IDENTIFICATION:

EMERGENCY OVERVIEW: Corrosive

GHS CLASSIFICATION: Skin Irritation: (Category 2) Serious Eye Irritation: (Category 2A) Acute Aquatic Toxicity (Category 3)

GHS Label elements, including precautionary statements

SIGNAL WORD: Warning

PICTOGRAM:



HAZARD STATEMENT(S):

H302: Harmful if swallowed
H315: Causes Skin Irritation
H319: Causes serious eye irritation
H412: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S):

P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/faceprotection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362: Take off contaminated clothing and wash before reuse.

POTENTIAL HEALTH EFFECTS

Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name	CAS #	Range wt %
SULFAMIC ACID	5329-14-6	75 - 80
Balance of formula contain proprietary non-regulated ingredients	-	20 - 25

4. FIRST AID MEASURES:

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Hold eyelids open while flushing the eyes. Get medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

INGESTION: If swallowed, do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.

SKIN CONTACT: Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing eye, skin or respiratory conditions.

SUPPLEMENTAL HEALTH INFORMATION: The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES:

FLAMMABLE PROPERTIES

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sulfur dioxide and sulfur trioxide may be released in the fire. A water solution of sulfamic acid is very acidic. The run-off from the fire should be contained and neutralized.

COMBUSTION PRODUCTS: This product is not combustible.

6. ACCIDENTAL RELEASE MEASURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Wear personal protective equipment. Keep dry. Recover with a shovel and store in an appropriate container for disposal. Do not allow spilled material to enter drains. Discharge into the environment must be avoided.

7. HANDLING AND STORAGE:

Precautions to be taken in Handling and Storing. Store in a cool dry place away from incompatible materials. Containers may be hazardous when emptied. Keep container upright and closed when not in use.

Other precautions For industrial use only. Keep away from children.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

EXPOSURE GUIDELINES: Contains no substaces with occupation exposure limit values

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.

VENTILATION: Local exhaust sufficient to keep exposure below TLV.

WORK / HYGENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

PROTECTIVE GLOVES: Rubber or other impervious material with gauntlets.

OTHER PROTECTIVE EQUIP: Boots, apron, lab coat or coveralls of impervious material, safety shower, eyewash.

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES:

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

a) Appearance: Purple, free-flowing powder	k) Vapor pressure: No data Available
B) Odor: Odorless	l) Vapor density: No data Available
d) pH: in 1% solution 2 - 4	m) Relative density (Specific Gravity): No data Available
e) Melting point/freezing point: No data Available	n) Water solubility: Complete
f) Initial boiling point and boiling range: No data Available	p) Auto-ignition temperature: Not applicable
g) Flash point: n/a Method Used: n/a	r) Viscosity: Not applicable
h) Evaporation rate: No data Available	-) Pounds Per Gallon: Not applicable
j) Upper/lower flammability or explosive limits: No data Available	OTHER: No other data is available for this product. . . .

10. STABILITY AND REACTIVITY:

STABLE: Stable

INCOMPATIBILITY: Oxidizing agents, Mineral acids Nitrogen

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Sulfur trioxide, Sulfur dioxide, Sulfuric acid, Ammonia

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Excessive heat and contamination of any kind.

11. TOXICOLOGICAL INFORMATION: None of the components of this product are listed as carcinogens. No other data available.

12. ECOLOGICAL INFORMATION: Keep out of waterways

13. DISPOSAL CONSIDERATIONS: Dissolve in large volume of water, neutralize with either soda ash or dilute sodium hydroxide, and dispose to municipal or industrial waste treatment facility in accordance with applicable regulations.

14. TRANSPORT INFORMATION:

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	3260	Corrosive Solids, Inorganic, n.o.s. (Sulfamic Acid)	8	III

15. REGULATORY INFORMATION: This product acceptable with 21 Food and Drug CFR 173.310 Boiler Water Additive

16. OTHER INFORMATION:

HMS INFORMATION: HEALTH: 2 FLAMMABILITY: 0 REACTIVE: 0 PROTECTIVE: B

NFPA INFORMATION: TOXICITY: 2 FIRE: 0 REACTIVITY: 0 SPECIAL: C

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