

SAFETY DATA SHEET

1. Identification

Product identifier	Aluminex™ Clean & Shine
Other means of identification	
Product code	MK3332
Recommended use	Aluminum hull cleaner
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Company name	CRC Industries, Inc.
Address	885 Louis Dr.
	Warminster, PA 18974 US
Telephone	
General Information	215-674-4300
Technical Assistance	800-521-3168
Customer Service	800-272-4620
24-Hour Emergency	800-424-9300 (US)
(CHEMTREC)	703-527-3887 (International)
Website	www.crcindustries.com

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Reproductive toxicity (oral)	Category 1B
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger		
Hazard statement	Causes skin irritation. Causes serious eye damage. May damage fertility or the unborn child by ingestion.		
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.		
Storage	Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
water		7732-18-5	90 - 100
amines, tallow alkyl, ethoxylate	d	61791-26-2	< 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

6. Accidental release measures		
General fire hazards	No unusual fire or explosion hazards noted.	
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.	

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.
	Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water. Should not be released into the environment.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	

	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.		
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.		
Individual protection measures,	, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin protection			
Hand protection	Wear protective gloves such as: Latex gloves. Rubber.		
Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Observe any medical surveillance requirements.		

9. Physical and chemical properties

Appearance			
Physical state	Liquid.		
Form	Liquid.		
Color	Pale yellow.		
Odor	Bland.		
Odor threshold	Not available.		
рН	1.3		
Melting point/freezing point	-22 °F (-30 °C) estimated		
Initial boiling point and boiling	212 °F (100 °C) estimated		
range			
Flash point	None (Tag Closed Cup)		
Evaporation rate	Slow.		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or expl	losive limits		
Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Vapor pressure	22.2 hPa estimated		
Vapor density	Not available.		
Relative density	1.01		
Solubility (water)	Soluble.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity (kinematic)	Not available.		
Percent volatile	95.7 % estimated		

10. Stability and reactivity

Reactivity

Reacts violently with strong alkaline substances. This product may react with reducing agents.

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Bases. Reducing agents.
Hazardous decomposition products	Carbon oxides. Oxides of phosphorus. Phosphine. Hydrogen halide.

11. Toxicological information

The Toxicological informe				
Information on likely routes of	exposure			
Inhalation	Prolonged inhalation may be harmful.			
Skin contact	Causes skin irritation.			
Eye contact	Causes seriou	Causes serious eye damage.		
Ingestion	May damage	May damage fertility or the unborn child by ingestion.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.			
Information on toxicological eff	fects			
Acute toxicity	Not known.			
Components	Species		Test Results	
amines, tallow alkyl, ethoxylated (Acute Oral LD50	CAS 61791-26-2 Rat	?)	600 - 1300 mg/kg	
* Estimates for product may I	be based on addi	tional component data not shown.		
Skin corrosion/irritation	Causes skin ir	ritation.		
Serious eye damage/eye irritation	Causes seriou	is eye damage.		
Respiratory sensitization	Not a respirate	Not a respiratory sensitizer.		
Skin sensitization	This product is	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Not classifiabl	e as to carcinogenicity to humans.		
IARC Monographs. Overall Not listed. OSHA Specifically Regulate Not regulated. US. National Toxicology Pr Not listed.	ed Substances (29 CFR 1910.1001-1050)		
Reproductive toxicity	May damage	fertility or the unborn child.		
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not an aspiration hazard.			
12. Ecological informatio	n			
Ecotoxicity		e low pH of this product, it would b quatic organisms and aquatic syste	e expected to produce significant ecotoxicity upon ems.	
Components		Species	Test Results	
amines, tallow alkyl, ethoxyla Aquatic	ted (CAS 61791-	26-2)		
Crustacea	EC50	Water flea (Daphnia magna)	3.7 - 7.2 mg/l, 48 hours	

Components		Species	Test Results	
Fish	LC50	Bluegill (Lepomis macrochirus)	1.1 - 1.6 mg/l, 96 hours	
* Estimates for product ma	y be based on	additional component data not shown.		
Persistence and degradability	У			
Bioaccumulative potential	No data available.			
Mobility in soil	No data a	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal consideration	tions			
Disposal of waste from residues / unused products	this mater	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.		
Hazardous waste code	Not regula	Not regulated.		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.			

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Reactivity Hazard - No

Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.
Superfund Amendments and	Reauthorization Act of 1986 (SARA)
Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No

SARA 302 Extremely No hazardous substance

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

- US. Massachusetts RTK Substance List
 - Not listed.
- US. Pennsylvania Worker and Community Right-to-Know Law
- Not listed. **US. Rhode Island RTK**

Not listed.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s))	0.9 %
Consumer products (40 CFR 59, Subpt. C)	Not regulated

State

Co

nsumer products	Not regulated
VOC content (CA)	0 %
VOC content (OTC)	0 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Substances Control Act (ISCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	12-04-2013	
Revision date	06-06-2017	
Prepared by	Allison Yoon	
Version #	02	
Further information	CRC # 666D	
HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 0 Personal protection: D	
NFPA ratings	Health: 3 Flammability: 0 Instability: 0	



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