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Product: ALUSHINE

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COMPANY DETAILS

Name: BD Chemicals	Emergency Tel. No. (011)7765076/0834693828/0783892507
Address: 56 Stanley Rd Knights Germiston, Gauteng, South Africa	Postal Address: PO Box 4120 Germiston South 1411
Tel. No. (011) 7765076	

1. PRODUCT IDENTIFICATION

Trade Name:	ALUSHINE
Description:	ALUSHINE is a concentrated acid detergent used to clean and brighten aluminium surfaces. ALUSHINE removes grease, soils mineral deposits and build-ups on aluminium parts/tanks/rims. DO NOT USE ON CHROME

2. HAZARDOUS COMPONENTS

	CAS#	ECC Class	%
Sulphuric Acid	7664-93-9	****	5 - 12
Butoxy Ethanol	111-76-2	****	2 - 6
Linear alkylbenzene sulfonic acid	27176-87-0	270-115-0	2 - 5
Ammonium hydrofluoride	1341-49-7	1341-49-7	5 - 8



3. HAZARD IDENTIFICATION

Main hazard	Chemical burns to skin, eyes, mucous membranes of mouth, throat and esophagus
Explosive hazard	None
Fire	Not Flammable
Chemical hazard	May attack anodized aluminium surface.
Health effects - eyes	Causes chemical burns. Immediate water flushing is vital in case of eye contact.
Health effects - skin	Causes chemical burns. Harmful contact may not cause immediate pain.
Health effects - ingestion	HARMFUL Causes chemical burns of mouth, throat and stomach
Health effects - inhalation	Damages airways and lungs, depending upon amount and duration of exposure. Effect vary from irritation to bronchitis or pneumonia, depending on exposure. People with lung problems may be more affected


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4. FIRST AID

Product in eyes:	Flush at once with cool running water. Remove contact lenses. Continue flushing for at least 15 min, holding eyelids apart to rinse entire eye. CALL A PHYSICIAN IMMEDIATELY.
Product on skin:	Immediately flush skin with plenty of cool running water for at least 15 min while removing contaminated clothing and shoes; discard or wash well before reuse. CALL A PHYSICIAN IMMEDIATELY
Product ingested:	Rinse mouth at once; then drink 1 or 2 glasses of water. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person. CALL A PHYSICIAN IMMEDIATELY
Product inhaled:	Immediately move to fresh air IMMEDIATELY CALL A PHYSICIAN

For any serious contact situation – GET MEDICAL ATTENTION

5. FIRE FIGHTING MEASURES

Extinguishing media	Use method appropriate for surrounding fire, the product does not support combustion.
Special hazards	High temperatures may generate hazardous decomposition products.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use proper protective equipment
Environmental precautions	Runoff or dilution water may be corrosive
Small spills	Using water, flush to sewer. Can be neutralized before flushing to sewer.
Large Spills	Dike or dam large spills. Pump to containers or soak up on inter absorbent. Using Water, flush residue to sewer



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7. HANDLING AND STORAGE

Suitable material	Wear protective equipment
Loading/unloading precautions	Wear protective equipment. Avoid contact with skin, eyes and mucous membranes. Minimize spray mists/vapors.
Handling/storage precautions	Store in cool, dry well ventilate place

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal protection- respiratory	Avoid breathing mists or vapors of this product
Personal protection - eyes	Wear chemical splash goggles. For continued or severe exposure wear a face shield over goggles.
Personal protection - skin	Wear any industrial rubber gloves, synthetic apron, other protective equipment as necessary to prevent skin contact
Other	Access to emergency eye wash and shower is recommended



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown/Purple liquid
Odor	Pungent Acid Odour
pH	← 2.0 (1%)
Specific Gravity	1.180 (20°C)
Solubility - water	Mixes with water in all proportions
Flammability	Not Flammable
Flash point	Not Applicable
Melting point	Not Applicable
Boiling point	→ 100°C
Auto-flammability	Not Applicable
Explosive properties	Not Applicable
Vapor pressure	Not Applicable


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10. STABILITY AND REACTIVITY

Conditions to avoid	Dilute product by slowly adding to water. Reacts with metals; reacts vigorously with alkaline chemicals. Do not mix with chlorinated products – will cause hazardous vapours
Stability	Stable under normal conditions of use and handling
Hazardous decomposition products	None known

11. TOXICOLOGICAL INFORMATION

Acute exposure	Corrosive to skin, eyes,
Chronic exposure	Sulphuric Acid may be associated with changes in pulmonary function, chronic bronchitis, conjunctivitis
Carcinogenicity	No Data Available
Mutagenicity	No Data Available
Neurotoxicity	Headache can occur
Reproductive hazards	No Data Available

12. ECOLOGICAL INFORMATION

General	Large quantities released will produce pH level changes.
Aquatic	Contamination of Aquatic systems should be avoided.
Biodegradability	When released into the soil, this material may leach into ground water. When released into air, this material may be removed from the atmosphere to a moderate extent by wet or dry deposition.
Bio-accumulation	Fish toxicity critical conc.=10mg/l 4mg/l/48hrs – Lymnaea palustris 0-100% mortality.

13. DISPOSABLE CONSIDERATIONS

Unused products are corrosive, consult local authorities for limits on chemical waste disposal

14. TRANSPORT INFORMATION

UN No.	1830
Packing Group	II
Class	8 (Corrosive Substances)



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15. REGULATORY INFORMATION

RISK PHRASES

Risk phrases:

R35 Causes severe corrosive burns

R23/24/25 Toxic when inhaled and swallowed, and when coming into contact with skin.

Safety phrases:

S2; Keep out of reach of children

S2 Keep out of reach of children

S36/37/39 Wear suitable protective clothing, protective gloves and goggles/face mask for all work.

S3/7/9 Keep container tightly closed in a cool well ventilated place

S26 Upon contact with the eyes, rinse thoroughly with water and consult a doctor

16. OTHER INFORMATION

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and conditions of use and handling are beyond our control, No WARRANTY, EXPRESS OR IMPLIED, IS MADE TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

Rev. no.	Rev. date	Reason for revision	Responsible person
0	15/06/2016	First issue in 16-point format	Richard Gaddi



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