ARCUS ABSORBENTS INC.

75 Deerhide Crescent, Unit 3, North York, Ontario, Canada M9M 2Z2

PRODUCT NAME: ARCUS – Acid Neutralizer Powder # AAN20/AAN24/AANB12

SECTION 01: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

MANUFACTURER: Same as above PREPARATION DATE: November 28, 2016

TELEPHONE NO.: (416) 745-7947 or (877) 227-6727

MATERIAL USE: Neutralizer for Acidic Materials

SECTION 02: HAZARDS IDENTIFICATION

GHS Classification: This product is classified as an eye irritant category 2

LABEL Information:

WARNING

Causes serious eye irritation. May cause skin irritation. May be harmful if swallowed.

PRECAUTIONS: Avoid contact with eyes and skin.

Wear gloves and eye protection when handling product.

Do not take internally.

HMIS ratings Health 1 Flammability 0 Reactivity 0

SECTION 03: COMPOSITION / INFORMATION on HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS CONC. APPROX.% C.A.S #

Sodium Carbonate 60 -100 497 - 19 - 8

Any concentration shown as a range is due to batch variation or is to protect confidentiality.

SECTION 04: FIRST AID MEASURES

INSTRUCTIONS: For contact with skin, rinse with water. Remove and wash contaminated clothing before reuse.

For eye contact, flush eyes with large amounts of water for 15 minutes. If irritation persists seek

medical attention.

If ingested, give 2 glasses water; and do not induce vomiting; seek immediate medical attention.

In case of inhalation of dust, remove to fresh air.

PRIMARY SYMPTOMS /ROUTE OF ENTRY:

SKIN CONTACT May cause mild irritation
EYE CONTACT May cause severe irritation

INHALATION Dust may cause irritation of nasal passages INGESTION May cause gastrointestinal discomfort

SECTION 05: FIRE AND EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABILITY: NO
IF YES, UNDER WHICH CONDITIONS:
EXTINGUISHING MEDIA: N.Ap.
SPECIAL PROCEDURES: N.Ap.

HAZARDOUS COMBUSTION PRODUCTS: N.Ap.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NIL
SENSITIVITY TO MECHANICAL IMPACT:

SENSITIVITY TO MECHANICAL IMPACT: NIL SENSITIVITY TO STATIC DISCHARGE: NIL

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK AND SPILL PROCEDURE: Wear gloves and eye protection. Recover as much as possible using any convenient means. Recovered material is usable as long as it is not contaminated with incompatible materials. Flush away residues as per local regulations.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT: Avoid contact with skin and eyes. Keep container closed when not in use.

STORAGE REQUIREMENTS: Store in cool location.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES / TYPE: Chemical resistant

RESPIRATOR / TYPE: Dust filter mask (if handling large quantities).

EYE / TYPE: Goggles

CLOTHING /TYPE: Appropriate for the use environment
OTHER / TYPE: Have access to eye bath and safety shower

ENGINEERING CONTROLS: General ventilation is adequate.

CONTROL PARAMETERS: N/Ap

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE / APPEARANCE: Pink Granular Powder ODOUR: None

ODOUR THRESHOLD: Not available

VAPOUR PRESSURE (mm Hg @ 20C): N.Ap.

N.Ap. EVAPORATION RATE (WATER = 1): N.Ap.

BOILING POINT INIT / RANGE (C): N.Ap.

100 pH (% SOLUTION): 11.4 (1%)

SPECIFIC GRAVITY: ~1.2

VAPOUR DENSITY (Air = 1):

FREEZING POINT (C): N.Ap.

SOLUBILITY IN WATER (% W/W):

VOLATILE (WT): < 1%

FLASH POINT (C): N.Ap. FLAMMABILITY: Nil

LEL / UEL LIMITS (% by vol): LEL: N.Ap. UEL: N.Ap. DECOMPOSITION TEMP (C):

N.Ap. AUTO IGNITION TEMP(C): N.Ap. VISCOSITY: N.Ap.

PARTITION COEFF. n-octanol/water: N.Av.

SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABLE: Yes IF NO, UNDER WHICH CONDITIONS?:

INCOMPATIBILITY WITH OTHER SUBSTANCES: Yes IF YES, WITH WHICH ONES?: Will react with acidic materials. SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS: N.AV.

HAZARDOUS DECOMPOSITION PRODUCTS: CO2 is generated as a byproduct of the acid neutralization reaction. When used to neutralize acids in enclosed spaces, make sure that adequate ventilation is provided to maintain CO2 levels below hazard standards.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL: N.Av. LC 50 OF MATERIAL, SPECIES AND ROUTE: N.Ap.

LD 50 OF MATERIAL, SPECIES AND ROUTE : 2.8~gr / Kg (rat)

CARCINOGENICITY OF MATERIAL: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC, OSHA, NTP, ACGIH

REPRODUCTIVE EFFECTS: No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

PRIMARY SYMPTOMS /ROUTE OF ENTRY:

SKIN CONTACT May cause mild irritation
EYE CONTACT May cause severe irritation

INHALATION Dust may cause irritation of nasal passages INGESTION May cause gastrointestinal discomfort

SENSITIZING CAPABILITY OF MATERIAL: N.Av. SYNERGISTIC MATERIALS: N.Av.

SECTION 12: ECOLOGICAL CONSIDERATIONS

AQUATIC TOXICITY: Fingerling Rainbow Trout 96Hr LC50 >100 mg /L

PERSISTANCE & DEGRADABILITY: Readily biodegradable.

BIOACCUMULATIVE POTENTIAL: N.Av.

MOBILITY IN SOIL: N.Av.

OTHER ADVERSE EFFECTS: N.Av.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: In accordance with Municipal, Provincial and Federal regulations

SECTION 14: TRANSPORT INFORMATION

T.D.G. CLASSIFICATION: Not regulated under TDG

UN NUMBER : N.Ap. PACKING GROUP : N.Ap.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION: D2B GHS CLASSIFICATION: See section 2

CPR COMPLIANCE: This product has been classified in accordance with the hazard criteria of the GHS and the SDS contains

all the information required by the HPR.

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available N.Ap. = Not applicable L(U)EL = Lower(Upper) explosion limit

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