



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aqua Blue Cleaner
PRODUCT CODES: SA 111 (NP915)

MANUFACTURER: Northern Surface Armor
STREET ADDRESS: 8140 W 350 N
CITY, STATE, ZIP: Angola, IN 46703

INFORMATION PHONE: 724-483-9300
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DATE REVISED: 4/15/15

Chemical Name or Class: Cleaning solution

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Skin corrosion/irritation category 2, Serious eye irritation category 2A, Specific target organ toxicity – single exposure category 3, Acute hazard to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark

Hazard Statements:

Warning: Causes skin irritation

Warning: Causes serious eye irritation

Warning: May cause respiratory irritation

Harmful to aquatic life.

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash skin thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray P271 Use only outdoors or in a well-ventilated area.

Response:

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P321 Specific treatment (see ... on this label).

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P362 + P364 take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

P405 Store locked up.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

HMIS HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMIBILITY: 0** **REACTIVITY: 0** **PERSONAL PROTECTIVE EQUIPMENT: G**

POTENTIAL HEALTH EFFECTS

EYES:

CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING OR BLURRED VISION.

SKIN:

MAY CAUSE IRRITATION, DEFATTING AND DERMATITIS.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

INHALATION:

CAN CAUSE NAUSEA AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, AND HEADACHE.



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HEALTH HAZARDS (ACUTE AND CHRONIC):

REPEATED CONTACT TO SKIN MAY CAUSE DEFATTING OR DRYNESS OF SKIN OR OTHER SIMILAR CONDITIONS. OVER-EXPOSURE TO THIS MATERIAL CAN CAUSE CARDIAC ABNORMALITIES, ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE OR EYE DAMAGE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE.

CARCINOGENICITY

OSHA: NO

NTP: NO

IARC: NO

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
NONYLPHENOXYPOLYETHOXYETHANOL	68412-54-4	NONE	NONE	NONE	3-7
*N-METHYL-2-PYRROLIDONE	872-50-4	100PPM	100PPM	100PPM	4
WATER	7732-18-5	NONE	NONE	NONE	60-100
MONOCYCLIC TERPENE HYDROCARBONS	94266-47-4	30ppm(AIHA)	NONE	NONE	1-5
TRIETHANOLAMINE (ALKANOLAMINE)	102-71-6	NONE	NONE	NONE	0.1-1
C.I. Acid Blue 9	3844-45-9	NONE	NONE	NONE	0.1-1

SECTION 3 NOTES: *Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: FIRST AID MEASURES

EYES:

FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

SKIN:

SKIN CONTACT WILL NORMALLY CAUSE NO MORE THAN IRRITATION BUT WASH AFFECTED AREA WITH SOAP AND WATER AND REMOVE CONTAMINATED CLOTHING PROPERLY.

INGESTION:

DO NOT INDUCE VOMITING, KEEP PERSON WARM AND CONSULT A PHYSICIAN IMMEDIATELY.

INHALATION:

REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,
(% by volume)

UPPER: N/A
LOWER: N/A

FLASH POINT: >200 F

METHOD USED:

SETA FLASH

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO₂, DRY CHEMICAL, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER CONFINED AREA WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

IF FIRE OCCURS, SOLVENTS MAY PRODUCE EXCESSIVE PRESSURE. SEALED DRUMS MAY RUPTURE AND IGNITE. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND AND IGNITE BY ANY SOURCE OF IGNITION. NEVER USE A CUTTING OR WELDING TORCH NEAR CONTAINERS (EVEN EMPTY). ALL 5 GALLON AND LARGER CONTAINERS SHOULD BE GROUNDED BEFORE TRANSFERRING MATERIAL.

SECTION 6: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR RESPIRATOR AND PROTECTIVE CLOTHING. REMOVE ALL SOURCES OF IGNITIONS. REMOVE EXCESS WITH VACUUM TRUCK AND TAKE UP THE REMAINDER WITH AN ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A COOL DRY PLACE. SEAL ALL PARTIALLY USED CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. PROPERLY LABEL ALL CONTAINERS. KEEP MATERIAL AWAY FROM ALL SOURCES OF IGNITION.



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OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEREOF. WEAR APPROPRIATE SAFETY EQUIPMENT AND RESPIRATOR AT ALL TIMES WHEN VENTILLATION IS NOT SUFFICIENT TO CONTROL VAPORS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134. ENGINEERING OR ADMINISTRATIVE MEASURES SHOULD BE TAKEN TO REDUCE THE RISK AND EXPOSURE.

VENTILATION:

PROVIDE SUFFICIENT MECHANICAL (GENERAL AND LOCAL EXHAUST) VENTILLATION TO MAINTAIN EXPOSURE BELOW TOXIC LEVEL VALUES.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES, NEOPRENE OR RUBBER.

EYE PROTECTION:

SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

PROVIDE NECESSARY CLOTHING AND SAFETY EQUIPMENT TO PREVENT CONTACT WITH MATERIAL.

WORK HYGIENIC PRACTICES:

TYPICAL HYGENIC PRACTICES SHOULD BE EMPLOYED TO PREVENT EXPOSURE AND CONTACT TO MATERIAL.

SEE SECTION THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: BLUE LIQUID WITH SOLVENT ODOR

BOILING POINT OR RANGE: 396F

VAPOR DENSITY (AIR = 1): HEAVIER THAN AIR

SPECIFIC GRAVITY (H₂O = 1): 1.0

EVAPORATION RATE: SLOWER THAN ETHER

SOLUBILITY IN WATER: SOLUBLE

Odor Threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Vapor Pressure: N/A

Auto Ignition Temperature: N/A

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

Decomposition Temperature: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

STABLE

CONDITIONS TO AVOID (STABILITY):

AVOID EXCESSIVE HEAT OR OPEN FLAMES AS WELL AS ALL SOURCES OF IGNITION SUCH AS SPARKS, HEATERS, STATIC DISCHARGES ETC..

INCOMPATIBILITY (MATERIAL TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZING AGENTS, AND STRONG ACIDS AND BASES.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

MAY FORM TOXIC CHEMICALS, CARBON DIOXIDE, CARBON MONOXIDE AND VARIOUS HYDROCARBONS ETC..

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component NONYLPHENOXYPOLYETHOXYETHANOL CAS# 68412-54-4: Acute Oral Toxicity LD50 – lethal dose 50% of test species = 3000 mg/kg (rat). Acute dermal Toxicity LD50 – lethal dose 50% test species = 4400 mg/kg (rabbit). Skin irritation – Severely irritating (rabbit). Eye irritation – Severely irritating (rabbit).

Component N-METHYL-2-PYRROLIDONE CAS# 872-50-4: Acute Oral Toxicity (LD50): 4,150 mg/kg (Rat). Acute Dermal Toxicity (LD50): >5,000 mg/kg (Rat). Acute Inhalation Toxicity (LC50): >5.1 mg/l (4 hour) (Rat).



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Eye Irritation: Moderately irritating to rabbit eye. (100%). Skin Irritation: Human experience has demonstrated severe dermatitis, e.g. blisters, cracking, edema, redness upon prolonged or repeated contact. Prolonged contact may induce defatting of skin which may result in redness and/or cracking. Irritating to rabbit skin. Sensitization: Not a sensitizer.

Mutagenicity: Non-mutagenic in various in-vitro and in-vivo assays. Reproductive/Developmental Toxicity: Reproductive/ developmental effects were observed in rats and rabbits. These effects occurred in the presence of maternal toxicity. The relevance of these findings to humans is unknown. Carcinogenicity: No increase in tumors were seen in a 2 year inhalation and a 2 year oral carcinogenicity study in rats. A dietary study in mice resulted in increased hepatocellular adenomas and carcinomas. The relevance of these findings to humans is unknown; the tumor type appears to be an adaptive response unique to the mouse. Other Information: Combined subchronic and neurotoxicity study in rats in dietary feed with concentrations of 0, 169/217, 433/565, or 1057/1344 mg/kg bw/day for 3 months resulted in a NOAEL = 169 mg/kg bw/day (females) and 217 mg/kg bw/day (males). Subacute dermal in rabbits with concentrations of 0,413,826 or 1653 mg/kg bw/day for 5 days/week for 4 weeks resulted in a NOAEL = 826 mg/kg bw/day (systemic). Subchronic inhalation (head-nose) in rats with concentrations of 0, 0.5, 1.0 or 3.0 mg/L for 6hrs/day, 5 days/week for 13 weeks resulted in a NOAEC = 0.5 mg/L (125ppm).

Component MONOCYCLIC TERPENE HYDROCARBONS CAS# 94266-47-4: Oral LD50 >5g/kg (rabbit). Dermal LD50 > 5g/kg (rabbit). Inhalation RD50 > 1g/kg (mice). Hazardous in case of skin contact (irritant, sensitizer), of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator), of ingestion. Sensitization: d-Limonene is not a sensitizer. Improper storage and handling can lead to oxidation. The oxidized forms of d-Limonene have been shown to be a skin sensitizer.

Component TRIETHANOLAMINE (ALKANOLAMINE) CAS# 102-71-6: Acute oral toxicity (LD50): 2200 mg/kg [Rabbit].

Chronic Effects on Humans: CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. May cause damage to the following organs: kidneys, liver, skin.

Other Toxic Effects on Humans: Hazardous in case of skin contact (permeator), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant). Special Remarks on Toxicity to Animals: LD50 [Rat] - Route: Oral; Dose: 4920 ul/kg LD50 [Rabbit] - Route: Skin; Dose: >20ml/kg. Special Remarks on Chronic Effects on Humans: May cause cancer (tumorigenic) based on animal data. May affect genetic material (mutagen): cytogenetic analysis (human lymphocyte) = 100 umol/L; sister chromatid exchange (human lymphocyte) = 1mmol/L.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation with burning pain, itching, and redness. May be absorbed through the skin and affect the liver, metabolism, and urinary tract. Eyes: Causes eye irritation with tearing and burning pain. May cause transient corneal injury. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May also affect behavior, sense organs, liver and urinary system. Inhalation: Inhalation of mist may cause respiratory tract irritation. May also affect the liver, blood, urinary system and cardiovascular system. Chronic Potential Health Effects: May cause liver and kidney damage. Prolonged or repeated contact may cause skin necrosis and /or ulceration of the skin.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component NONYLPHENOXYPOLYETHOXYETHANOL CAS# 68412-54-4: LC50 – lethal concentration 50% test species > 10 mg/l (96 hr, bluegill sunfish).

Component N-METHYL-2-PYRROLIDONE CAS# 872-50-4: Ecotoxicity: LC50=>500 mg/L 96hour (Rainbow Trout) . EC50=>1000 mg/L 24hour (Daphnia Magna). EC50=125 mg/L 72hour (Scenedesmus Subspicatus) Bluegill (Lepomis Marochirus) LC50 @22°C: 832 mg/l Fathead Minnow (Pimephales Promelas). LC50 @22°C: 1,072 mg/l Trout (Salmo Gairdneri). LC50 @12°C: 3,048 mg/l. Bioaccumulative Potential: Does not bioaccumulate

Component MONOCYCLIC TERPENE HYDROCARBONS CAS# 94266-47-4: Component is expected to be readily biodegradable. Product may act as an oil and cause a sheen, emulsion or sludge on or below the surface of water.

Component TRIETHANOLAMINE (ALKANOLAMINE) CAS# 102-71-6: Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

SECTION 13: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.

SECTION 14: Transport Information

DOT: Not Regulated

IMO/IMDG: Not Regulated

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Component NONYLPHENOXYPOLYETHOXYETHANOL CAS# 68412-54-4: component is on the TSCA, Canada DSL, AICS, MITI and KECL lists.. This component contains the following ingredients regulated under California Proposition 65 (Dioxane CAS# 123-91-1 @ <0.003%) and (ethylene oxide CAS# 75-21-8 @ < 0.0005%)

Component N-METHYL-2-PYRROLIDONE CAS# 872-50-4: Component is on the TSCA, Canada DSL, ENCS, AICS, EINECS, KECI, PICCS, lists. Component is a proposition 65 chemical – developmental toxicity. Component is a Sara Title III section 313 chemical.



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Component MONOCYCLIC TERPENE HYDROCARBONS CAS# 94266-47-4: Component is on the TSCA, Canada DSL, EINECS, AICS, PICCS and ENCS lists.

Component TRIETHANOLAMINE (ALKANOLAMINE) CAS# 102-71-6: Federal and State Regulations: Rhode Island RTK hazardous substances: Triethanolamine Pennsylvania RTK: Triethanolamine Minnesota: Triethanolamine Massachusetts RTK: Triethanolamine TSCA 8(b) inventory: Triethanolamine TSCA 8(d) H and S data reporting: Triethanolamine. Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC):

R36- Irritating to eyes. R40- Possible risks of irreversible effects. S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately.

Component C.I. Acid Blue 9 CAS# 3844-45-9: Federal and State Regulations: Massachusetts RTK: FD&C Blue 1 New Jersey: FD&C Blue 1 TSCA 8(b) inventory: FD&C Blue 1. Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC): R33- Danger of cumulative effects. S24/25- Avoid contact with skin and eyes.

SECTION 16: OTHER INFORMATION

DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE, HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.

N/A = Not Available

See Section 1 for date of preparation