

# Safety Data Sheet (SDS)

## NANOSKIN HEAVY DUTY ACID



### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : NANOSKIN HEAVY DUTY ACID Aluminum Brightener & Wheel Cleaner  
Product identifier : NA-HDA  
Product Family : Aqueous mixture

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses : Automotive body detailing

#### 1.3 Details of the supplier of the safety data sheet

Company : NANOSKIN Car Care Products Total  
Import Solutions, Inc.

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910(OSHA HCS)

H302 Harmful if swallowed.

H313 May be harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

##### Precautionary Statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 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 or doctor/ physician.

P362 Take off contaminated clothing and wash before reuse.

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

## 2.2 GHS Label elements, including precautionary statements

SIGNAL WORD: WARNING

PICTOGRAM



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS number	Warnings	Concentration
NONIONIC SURFACTANT BLEND	MIXTURE		>5%
HYDROFLUORIC ACID	7664-39-3		5-10%
2-BUTOXY ETHANOL	111-76-2		1-5%
SULFURIC ACID	7664-93-9		5-10%

## 4. FIRST AID MEASURES

### First aid procedures

#### After inhalation:

Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious. If victim is conscious, rinse mouth with water and contact emergency number listed in section 1.4.

#### After contact with skin:

Immediately wash skin with water. May cause irritation, burns or skin damage. Seek medical attention if irritation or allergic reaction is present. Remove contaminated clothing, shower immediately.

#### After contact with eyes:

Immediately flush eyes with running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek prompt medical attention if redness or irritation occurs. Remove contact lenses if able. Seek medical advice.

#### After ingestion:

Rinse mouth with water, contact poison control center or emergency number listed in section 1.4. Consult a physician. Never give anything by mouth to an unconscious person.

**Advice to doctor / Treatment:**

None known.

**5. FIRE FIGHTING MEASURES****Flashpoint: Unknown, aqueous mixture.****Lower explosion limit:** Not applicable**Upper explosion limit:** Not applicable**Self ignition:** Not applicable**Ignition temperature:** not tested.**Hazardous combustion products:** carbon oxides, sulfur oxides.**Extinguishing media:** water spray jet, alcohol-resistant foam, carbon dioxide, dry powder.**Special fire fighting procedure:** Apply alcohol-type or all purpose-type foams by manufacturers' recommended techniques for large fires or water spray. Use carbon dioxide or dry chemical media for small fires. Use self-contained breathing apparatus and protective equipment. Cool endangered containers with water jet.**Unusual fire and explosion hazards:** Product can potentially float on water..**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions** Use the Personal protective Equipment recommended in Section 8 of this SDS**Environmental Precautions** Spilled product may present a slipping hazard or result in unintended fumes or contact. Please absorb excess, rinse area and ensure adequate ventilation.**Methods for Containments and Clean-up**

Contain large spills as best as possible. Dam flow with appropriate inert materials and absorb centralized spillage with inert material such as vermiculite, cat litter or diatomaceous earth. Sweep and dispose of as needed. For small spills, wipe away and wash exposed area.

**7. HANDLING AND STORAGE****Handling** Wear gloves while in use, protect hands, face and skin from exposure. Dispose of any contaminated clothing.**Storage** Store with caution. Do not store in temperatures above 120F. Bottle/container may swell and or fumes accumulate. Store in adequate ventilation.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guideline Comments** Exposure Limits:  
2-Butoxyethanol 111-76-2 TWA 20.000000 ppm USA. ACGIH Threshold Limit Values (TLV) Remarks Upper Respiratory Tract irritation

Eye irritation Substances for which there is a Biological Exposure Index or Indices . Confirmed animal carcinogen with unknown relevance to humans. Potential for dermal absorption.

TWA 50.000000 ppm 240.000000 mg/m3 USA.

Occupational Exposure Limits (OSHA)

Hydrofluoric acid 7664-39-3 TWA 0.500000 ppm USA.

C 2.000000 ppm USA. ACGIH Threshold Limit Values (TLV)

TWA 3.000000 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2

TWA 2.500000 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 L

imits for Air Contaminants

Sulfuric acid 7664-93-9 TWA 0.2 mg/m3 USA. ACGIH Threshold Limit Values (TLV)

TWA 1 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA 1 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for

Air Contaminants

**Engineering Controls** Adequate ventilation necessary. Appropriate storage.**Personal Protective Equipment (PPE)**

<b>Eye/Face Protection</b>	Please wear appropriate face/eye protection and a niosh approved respirator.
<b>Skin Protection</b>	Wear gloves while in use.
<b>Respiratory Protection</b>	Niosh approved respirator for airborne particles if adequate ventilation not present.
<b>General Hygiene Considerations</b>	Treat products as sum of its components. Oxides and particulate matter may irritate lungs. Wash hands before and after use and before smoking eating or drinking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	liquid
<b>Appearance</b>	clear
<b>Particle Size</b>	<b>N/A</b>
<b>Odor</b>	acrid
<b>Odor Threshold</b>	No Available Data
<b>Molecular Formula</b>	Mixture
<b>Molecular Weight</b>	Mixture
<b>Boiling Point</b>	180F
<b>Decomposition Temperature</b>	No Available Data
<b>Melting point</b>	32F
<b>Freezing Point</b>	32F
<b>Relative Density</b>	<b>1.07g/cm3</b>
<b>Bulk Density</b>	No Available Data
<b>Solubility in Water</b>	100%
<b>Solubility in other liquids</b>	No Available Data
<b>pH</b>	2-3
<b>Flash point</b>	No Available Data

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Avoid extreme temperatures.
<b>Hazardous Decomposition Products</b>	carbon oxides, sulfur oxides.
<b>Possibility of Hazardous Reactions</b>	Do not bring into contact with oxidizers, caustic or basic materials.

## 11. TOXICOLOGICAL INFORMATION

### 2-BUTOXY ETHANOL

Acute toxicity LD50 Oral - Rat - male - 880 mg/kg (OECD Test Guideline 401) Inhalation: No data available LD50 Dermal - Rabbit - male - 1,060 mg/kg (OECD Test Guideline 402) LD50 Intraperitoneal - Rat - 220 mg/kg LD50 Intravenous - Rat - 307 mg/kg Skin corrosion/irritation Skin - Rabbit Result: Skin irritation - 20 h Serious eye damage/eye irritation Eyes - Rabbit Result: Eye irritation - 24 h (OECD Test Guideline 405) Respiratory or skin sensitisation Maximisation Test (GPMT) - Guinea pig Result: Does not cause skin sensitisation. (OECD Test Guideline 406) Germ cell mutagenicity Hamster ovary Result: negative OECD Test Guideline 474 Mouse - male Result: negative Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol) NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### SULFURIC ACID

Acute toxicity LD50 Oral - Rat - 2,140 mg/kg LC50 Inhalation - Rat - 2 h - 510 mg/m3 Dermal: No data available

**Skin Irritation/Corrosion**

Damaging/irritating to skin.

**Eye Irritation/Corrosion**

Causes eye irritation/damage.

**Effects of Short-Term (Acute) Exposure**

Damage to area in contact, resulting in chemical burns/irritation/damage.

**Inhalation**

Fumes/vapor/mist may burn lungs and potentially be fatal/hazardous.

**Ingestion**

Liquid is toxic and damaging to mouth, esophagus and stomach.

**12. ECOLOGICAL TOXICITY****General Comments****2-BUTOXYETHANOL**

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 1,474 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 1,550 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 1,840 mg/l - 72 h (OECD Test Guideline 201) 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 90.4 % - Readily biodegradable

**13. DISPOSAL CONSIDERATIONS**

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

**14. TRANSPORT INFORMATION****Shipping Information**

**UN No 2922 Corrosive liquid, toxic, n.o.s. (Hydrofluoric Acid)**

**Hazard Class: 8 (6.1)**

**Packing group: II**

**Special Shipping Information**

Not applicable.

NFPA/HMIS

3 HEALTH

0 FLAMMABILITY

0 REACTIVITY

**15. REGULATORY INFORMATION****United States**

**SARA 302 Components** The following components are subject to reporting levels established by SARA Title III, Section 302: Hydrofluoric acid CAS-No. 7664-39-3 Revision Date 1993-04-24 SARA 313

Components The following components are subject to reporting levels established by SARA Title III, Section 313: Hydrofluoric acid CAS-No. 7664-39-3 Revision Date 1993-04-24

**SARA 311/312** Hazards Acute Health Hazard, Chronic Health Hazard

2-Butoxyethanol CAS-No. 111-76-2

**Sulfuric acid CAS-No. 7664-93-9**

**Massachusetts Right To Know Components**

2-Butoxyethanol CAS-No. 111-76-2

Sulfuric acid CAS-No. 7664-93-9

Hydrofluoric acid 7664-39-3 1993-04-24

**Pennsylvania Right To Know Components**

Sulfuric acid CAS-No. 7664-93-9

2-Butoxyethanol CAS-No. 111-76-2

Hydrofluoric acid 7664-39-3 1993-04-24

**New Jersey Right To Know Components**

2-Butoxyethanol CAS-No. 111-76-2

Sulfuric acid CAS-No. 7664-93-9

Hydrofluoric acid 7664-39-3 1993-04-24

**California**

California Prop. 65 Components WARNING! This product contains a chemical known to the State of California to cause cancer. CAS-No. 7664-93-9

**16. OTHER INFORMATION**

**SDS Prepared by**

**Disclaimer**

**Total Import Solutions, Inc. dba NANOSKIN Car Care Products**

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