# SAFETY DATA SHEET



## **SECTION 1: IDENTIFICATION**

COMPANY NAME: AMERICAN INDUSTRIES, INC.

ADDRESS LINE 1: 4300 Kahn Drive, Box 1405

ADDRESS LINE 2: Lumberton, NC 28359-1405 USA

**TELEPHONE NUMBERS:** 800-753-5153 (or) 910-738-7224

EMERGENCY PHONE: CHEMTREC 1-800-424-9300

PRODUCT NAME: TUF STUF PRODUCT CODE: 2440

**PRODUCT USE:** Ready To Use Industrial Strength

Degreaser/Cleaner

**SDS FILE ID:** 2440.06 **SDS DATE:** 2023-09-27

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REPLACES MSDS VERSION DATED: 2016-02-23 and all prior revisions

#### **SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification** 

Health Skin corrosion/irritation

Serious eye damage/eye irritation 1
Carcinogenicity 2

Environmental hazards OSHA defined hazards Label elements Not classified. Not classified.



Signal word DANGER

Hazard statements Causes sever skin burns and eye damage. Causes serious eye damage. Suspected of causing cancer.

Precautionary statements

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Do not breathe mist/vapors. Wash thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (OR HAIR): Remove all

contaminated clothing immediately. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Wash contaminated clothing before reuse.

Storage Store locked up.

Disposa Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 5.78% of the mixture consists of component(s) of unknown acute oral toxicity. 7.31% of the

mixture consists of component(s) of unknown acute dermal toxicity. 96.07% of the mixture

consists of component(s) of unknown acute inhalation toxicity.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Chemical name</u>	CAS number	<u>%</u>
Diphosphoric acid,	7320-34-5	1.6398
tetrapotassium salt (1:4)		
Silicic acid (H2SiO3), disodium	6834-92-0	1.5301
salt (1:2)		
Ethanol, 2,2',2"-Nitrilotris-	102-71-6	0.6968
Ethanol, 2,2'-Iminobis-	111-42-2	0.123
Benzaldehyde, 4-Hydroxy-3-	121-33-5	0.0068
Methoxy-		
Sodium Hydroxide (NA(OH))	1310-73-2	0.0068
Benzaldehyde	100-52-7	0.0014

Other components below

reportable levels

**SECTION 4: FIRST AID MEASURES** 

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove all contaminated clothing immediately. Rinse skin with water/shower. Call a physician or

95.9953

poison control center immediately. Chemical burns must be treated by a physician. 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. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness

could result.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, removes clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. 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.

**SECTION 5: FIRE-FIGHTING MEASURES** 

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Move containers from fire area if you can do so without risk.

General fire hazards No unusual fire or explosions hazards noted.

**SECTION 6: ACCIDENTAL RELEASE MEASURES** 

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 breathe mist/vapors. 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

Self-contained breathing apparatus and full protective clothing must be wont in case of fire.

protection, see section 8 of the SDS.

Methods and materials for containment and cleanup

Storage

Prevent entry into waterways, sewer, basements, or confined areas.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand, or earth and place into containers. Following product

recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. clothe, fleece). Clean surface thoroughly to remove

residual contamination.

 $Never\ return\ spills\ to\ original\ containers\ for\ re-use.\ Put\ material\ in\ suitable,\ covered,\ labeled$ 

containers. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses, or onto the ground.

**SECTION 7: HANDLING AND STORAGE** 

Handling Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear

appropriate person protective equipment. Observe good industrial hygiene practices.

Store locked up. Store in tightly closed container. Store away from incompatible materials (see

section 10 of the SDS.)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Good general ventilation 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. Eye wash facilities and emergency

shower must be available when handling this product.

Personal protective equipment The following are recommendations for Personnel Protective Equipment (PPE). The

employers/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any

task involving potential exposure to this product

Eye/Face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Use of

an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Observe any medical surveillance requirements. Always observe good personal hygiene measures,

considerations such as washing after handling the materials and before eating, drinking, and/or smoking.

Routinely wash work clothing and protective equipment to remove contaminants.

#### Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components CAS # Value Type Form Sodium Hydroxide 1310-73-2 2 mg/m3 PEL

(NA(OH))

**US ACGIH Threshold Limit Values** 

Ethanol, 2,2',2"- 102-71-6 5 mg/3 TWA

Nitrilotris-

Ethanol, 2,2'-Iminobis- 111-42-2 1 mg/m3 TWA Inhalable fraction and vapor

Sodium Hydroxide 1310-73-2 2 mg/m3 CEILING

(NA(OH))

US NIOSH Pocket Guide to Chemical Hazards

Ethanol, 2,2'-Iminobis- 111-42-2 15 mg/m3 TWA

Sodium Hydroxide 1310-73-2 2 mg/m3 CEILING

(NA(OH))

US Workplace Environmental Exposure Level (WEEL) Guides

Benzaldehyde 100-52-7 17.4 mg/m3 STEL

4 PPM

8.7 mg/m3 TWA

**TWA** 

2 ppm Benzaldehyde, 4- 121-33-5 10 mg/m3

Hydroxy-3-Methoxy-

Biological limit values No biological exposure limits noted for the ingredient(s).

## Exposure guidelines

US - California OELs: Skin designation

Ethanol, 2,2'-Iminobis- 111-42-2 Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Ethanol, 2,2'-Iminobis- 111-42-2 Can be absorbed through the skin.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Color Green liquid **Physical State** Liquid Strawberry Odor Flash point 200°F (93.3°C) Flammability Not available. **Partition Coefficient** Not available. 216.07°F (102.26°C) **Boiling point** Melting point/freezing point Not available.

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Auto-ignition temperature Not available. Vapor pressure Not available. Vapor density (Air-1) Not available.

Specific gravity 1.05

Viscosity Not available. Water solubility Not available.

pH >12

Evaporation rate (Water=1) Not available Decomp Temp Not available.

Density 8.77 lbs/gal, 1.05 g/ml

Explosive properties Not explosive.

Flammability class Combustible IIIB estimated

Oxidizing properties Not oxidizing.

Percent volatile 90.77% estimated

VOC 0.06% estimated

## **SECTION 10: STABILITY AND REACTIVITY**

Reactivity The product is stable and non-reactive under normal conditions of use, storage, and transport.

Chemical stability Stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials

Materials to avoid Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known.

products

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns.

Symptoms related to the Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

toxicological characteristics blindness could result.

Information on toxicological effects

Acute toxicity Not known.
Benzaldehyde 100-52-7

Acute toxicity LD50 Dermal-rabbit >1,250 mg/kg

LD50 Oral-rat 1,300 mg/kg

Benzaldehyde, 4-Hydroxy-3-

Methoxy

121-33-5

Acute toxicity LD50 Oral-rat 1,580 mg/kg

Ethanol, 2,2'-Iminobis 111-42-2

Acute toxicity LD50 Oral-rat 710 mg/kg

Silicic acid (H2SIO2), Sodium salt 6834-92-0

(1:2)

Acute toxicity LD50 Oral-rat 1,280 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Due to partial or complete lack of data the classification is not possible.

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Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicty Suspected of causing cancer.

**IARC** Ethanol, 2,2',2"-Nitrilotris- (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

> Ethanol, 2,2'-Iminobis- (CAS 111-42-2) 2B Possibly carcinogenic to humans.

NTP Not listed. **OSHA** Not listed.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity,

single exposure

Specific target organ toxicity,

repeated exposure Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**SECTION 12: ECOLOGICAL INFORMATION** 

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Benzaldehyde 100-52-7

Toxicity to fish LC50 Bluegill (Lepomis macrochirus) 0.8 - 1.44 mg/l, 96 hours

Benzaldehyde, 4-Hydroxy-3-

Methoxy-

121-33-5

Toxicity to fish LC50 Fathead minnow (Pimephales 53 - 61.3 mg/l, 96 hours

promelas)

Ethanol, 2,2',2"-Nitrilotris-102-71-6

Toxicity to crustacea EC50 Water flea (Ceriodaphnia dubia) 565.2 - 658.3 mg/l, 48 hours

Toxicity to fish LC50 Fathead minnow (Pimephales 10,610 - 13,010 mg/l, 96 hours

promelas

Ethanol, 2,2'-Iminobis-111-42-2

Toxicity to crustacea EC50 Water flea (Ceriodaphnia dubia) 61.8 - 86.04 mg/l, 48 hours

Fathead minnow (Pimephales Toxicity to fish LC50 100 mg/l, 96 hours

promelas

Sodium Hydroxide (NA(OH)) 1310-73-2

Toxicity to crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours

Toxicity to fish LC50 Western mosquitofish 125 mg/l, 96 hours

(Gambusia affinis)

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bio-accumulative potential

Partition coefficient n-octanol/water (log Kow)

Benzaldehyde 1.48

Benzaldehyde, 4-Hydroxy-1.37

3-Methoxy-

Ethanol, 2,2',2"-Nitrilotris--1

Ethanol, 2,2'-Iminobis--1.43

Mobility in soil Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone create

potential, endocrine disruption, global warming potential) are expected from this component.

**SECTION 13: DISPOSAL CONSIDERATIONS** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the Disposal instructions

material under controlled conditions in an approved incinerator. Dispose of contents/container in

accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

SDS File ID: 2440.06 Product Name: TUF STUF SDS Issue/Revision Date: 2023-09-27 AMERICAN INDUSTRIES, INC. Page 5 of 8 Hazardous waste code D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer, and the waste

disposal company.

Waste from Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues/unused products residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions.)

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.

# **SECTION 14: TRANSPORT INFORMATION**

DOT

UN number UN3266

UN proper shipping name SODIUM METASILICATE SOLUTION

Transport hazard class(es) Class 8

Subsidiary risk

Packing group III

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

ERG number 154

Transportation information on packaging may be different from that listed.

IATA

UN number UN3266

UN proper shipping name SODIUM METASILICATE SOLUTION

Transport hazard class(es) Class 8

Subsidiary risk -

Packing group III
Environmental hazards No.
ERG Code 154

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

**IMDG** 

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALCOHOLS, C9-11, ETHOXYLATED),

MARINE POLLUTANT

Transport hazard class(es) Class 9

Subsidiary risk

Packing group ||

Environmental hazards Marine pollutant Yes.

EmS F-A, S-F

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

DOT



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**IMDG** 



Marine pollutant



General information IMDG Regulated Marine Pollutant.

## **SECTION 15: REGULATORY INFORMATION**

US federal regulations This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard,

29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Suptp. D) Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethanol, 2,2'-Iminobis- (CAS 111-42-2)

Sodium Hydroxide (NA(OH)) (CAS 1310-73-2)

Listed.

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001- Not listed. 1053)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity

SARA 313 (TRI reporting) Not regulated.

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## Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants Ethanol, 2,2'-Iminobis- (CAS 111-42-2)

(HAPs) List

Clean Air Act (CAA) Section 112® Accidental Release Not regulated.

Prevention (40 CFR 68.130)

Safe Drinking Water Act (SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 1&2 Exempt Benzaldehyde (CAS 100-52-7) 50% WV

Chemical Mixtures (21 CFR 1310.12(c))

DEA Exempt Chemical Mixtures Code Number Benzaldehyde (CAS 100-52-7) 8256

FEMA Priority Substances Respiratory Health and Safety in the Benzaldehyde (CAS 100-52-7) High priority

Flavor Manufacturing Workplace

# State Regulations

#### **California Proposition 65:**



**WARNING:** This product can expose you to Ethanol, 2,2'-Iminobis-, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

California Proposition 65 – CRT: Listed date/Carcinogenic substance

ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2) Listed: June 22, 2012

US California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3) subd. (a))

ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

#### International Inventories

County or region Inventory name On inventory (yes/no)\*

CanadaDomestics Substances List (DSL)YesCanadaNon- Domestics Substances List (NDSL)NoUS & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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).

#### **SECTION 16: OTHER INFORMATION**

**Important Note:** To be the best of our knowledge, the information contained herein is accurate. However there is no assumption of liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, the manufacturer/supplier will not be responsible for loss, injury, or expense arising out of the products improper use. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

\*\*\*End of SDS\*\*\*

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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing county(s)