

1. IDENTIFICATION

Product Name Sulfanilic Acid CAS Number 121-57-3

Uses Industrial intermediates for the synthesis of organic chemicals

Manufacturer Nation Ford Chemical Company

2300 Banks St Fort Mill, SC 29715 United States of America

Email info@nationfordchem.com

Telephone 1-803-548-3210

Emergency Telephone 1-800-4

Number

1-800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

**Hazard Classification** 

Classification in accordance with Regulation (EC) No 1272/2008 and 29 CFR 1910.1200

Skin IrritantCategory 2H315Eye IrritantCategory 2AH319Skin SensitizerCategory 1H317

**Label Elements** 

Hazard Pictograms



Signal Word Warning

**Hazard Statements** 

H315 Causes skin irritation

H317 May cause an allergic skin reaction H319 Causes serious eye irritation

**Precautionary Statements** 

P261 Avoid breathing dust

P264 Wash skin thoroughly after handling

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves

P302/352 IF ON SKIN: Wash with plenty of soap and water

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P333/313 If skin irritation or rash occurs: Get medical attention.

P337/313 If eye irritation persists: Get medical attention.

P362/364 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents in accordance with local regulations.

Other Hazards

Results of PBT and vPvB assessment PBT No vPvB No



#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name Sulfanilic Acid 121-57-3 **CAS Number EINECS Number** 204-482-5

01-2119541820-45-0000 Reach Registration Number

Index Number 612-014-00-X

99+% Purity

Synonyms 4-Aminobenzenesulfonic acid

> p-anilinesulfonic acid Sulphanilic acid

4. FIRST AID MEASURES

General information Immediately remove any clothing soiled by the product. Provide oxygen

treatment if affected person has difficulty breathing. Take affected persons

out into the fresh air.

Inhalation If large amounts are inhaled, remove to fresh air. If breathing has stopped,

give artificial respiration. If breathing is difficult, administer oxygen and call a

physician.

Skin contact Immediately wash skin with soap and copious amounts of water while

removing contaminated clothing. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with copious amounts of water for at least 15

minutes. Assure adequate flushing by separating eyelids with fingers. Seek

medical attention.

Ingestion Do not induce vomiting. Immediate vigorous rinsing of the mouth. Drink

water in small sips (dilution effect). If unconscious place in recovery position and seek immediate medical attention. Maintain an open airway. Loosen

tight clothing (such as a collar, tie, belt or waistband).

Most important symptoms

and effects, both acute and

delayed

Causes eye and skin irritation. May cause allergic skin reaction

(sensitization.)

Indication of any immediate medical attention and

special treatment needed

Symptomatic treatment and if possible contact poison specialist. No further relevant information available. Immediate medical attention should not be

required.

5. FIRST AID MEASURES

Suitable extinguishing Carbon Dioxide (CO2)

media Powder Water Sprav

Fight larger fires with water spray or alcohol resistant foam

Unsuitable extinguishing

media

Water with full jet

Special hazards arising

The substance emits toxic fumes of carbon monoxide, carbon dioxide, and from the substance oxides of sulfur and nitrogen under fire conditions. Sulfanilic acid can

produce flammable dust clouds in air. Take precautionary measures against static discharges. If involved in a fire, it may emit noxious and toxic fumes.

Advice for firefighters If excessive smoke or fumes are encountered, wear self-contained breathing

apparatus and protective clothing to prevent contact with skin and eyes.



Dispose of fire debris and contaminated fire-fighting water in accordance with official regulations. Collect contaminated fire-fighting water separately. It must not enter the sewage system.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Ensure suitable personal protection (including respiratory protection) during removal of spillages. Sweep up, place in drum and hold for approved waste disposal in compliance with local, state, and federal requirements. Avoid

breathing dust. Avoid skin and eye contact and inhalation.

Environmental precautions Do not allow to enter drains, sewers or watercourses.

Methods and materials for containment and cleaning

Protect against dust. Clear up spillages, transfer to a container for disposal.

Wash the spillage area clean.

Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### HANDLING AND STORAGE

Precautions for Safe

Handling

Store in well ventilated areas. Keep container tightly closed and dry. Do not store with acids. Take precautionary measures against static discharges.

Conditions for Safe Storage

Requirements to be met by

Storerooms and receptacles

Store in a dry place.

Keep away from sources of ignition and strong oxidizing agents.

Do not use food containers. Risk of confusion! Containers are clearly and permanently labelled.

Store in the original container if possible.

Keep container tightly closed.

Information about storage in one common storage

facility

Do not store together with acids. Store away from foodstuffs.

Store away from flammable substances.

Further information about

storage conditions

The storage in one common storage facility with materials belonging to another storage classes is only possible under certain conditions.

The substance should not be stored with substances, which can lead to

dangerous reactions. Keep container tightly sealed.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters** 

**DNEL Values** 

Dermal (Long Term 3.33 mg/kg bw/day

Exposure)

Inhalation (Long Term

Exposure)

6.67 mg/m<sup>3</sup>

**PNEC Values** 

SDS-003

PNEC<sub>aqua</sub> (freshwater) PNEC<sub>agua</sub> (marine water) PNEC<sub>aqua</sub> (intermittent

0.023 mg/L; Assessment factor 1000 0.0023 mg/L; Assessment factor 1000 0.23 mg/L; Assessment factor 100

releases)

**PNEC**STP

100 mg/L



This product does not have an ACGIH TLV or OSHA PEL.

Ingredients with limit values that require monitoring at

the workplace

Contains no substances with occupational exposure limits.

Additional Information The lists valid during the making were used as basis.

**Exposure Controls** 

Personal protective Keep away from foodstuffs, beverages and feed.

equipment general Immediately remove all soiled and contaminated clothing. protective and hygienic

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin. measures

Ventilation A general exhaust system is recommended.

Respiratory Protection NIOSH/MSHA approved respirator or follow the requirement of the local

governing body. In case of an accidental release it is recommended to wear

respiratory protection such as particle filter P2 or P3.

Hand Protection Protective gloves according to proper IH procedures.

Eye and Face Protection In cases where there is likelihood of eye contact, wear chemical goggles.

Skin and Body Protection Protective work clothing

**Environmental Exposure** Product as well as with product contaminated constituents, cleaning or

solvent: do not release into the environment. Dispose of as hazardous waste

in accordance with EC directives on waste.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

White to light gray powder Color

Form Solid

Odor Odorless

Odor threshold No data available

2.5 pН

Melting/Freezing point The substance decomposes prior to melting

**Boiling** point The substance decomposes prior to melting

Flash point Not applicable

Evaporation rate Not applicable

Substance is not flammable Flammability (solid, gas)

Upper explosion limit No data available

Lower explosion limit No data available

Vapor pressure <0.01 hPa



Density 1.862 g/cm<sup>3</sup>

Water solubility at 20°C 12 g/L (Value used for CSA)

Segregation coefficient (noctanol/water) at 25°C

-2.3 log POW

Ignition temperature No data available

Decomposition temperature ca. 288°C

Self-igniting 331°C at 1013 hPa (Valued used for CSA)

Danger of explosion No data available

Dynamic viscosity Not applicable

Kinematic viscosity Not applicable

### 10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability Stable at normal storage and handling conditions

Possibility of hazardous

reactions

No data available

Conditions to avoid No data available

Incompatible materials Strong oxidizers, acids

Hazardous decomposition

products

The substance emits toxic fumes of carbon monoxide, carbon dioxide, and oxide of sulfur and nitrogen under fire conditions. If involved in a fire, it may

emit noxious and toxic fumes.

#### 11. TOXILOGICAL INFORMATION

Inhalation Dust may be irritant to the upper respiratory tract.

Ingestion Unlikely to be hazardous if swallowed.

Eye Contact Irritating to eyes.

Skin Contact Irritating to skin.

Long-Term Exposure No long-term effects have been identified.

Acute Oral Toxicity LD50: >2000 mg/kg bw (rat)

OECD Guideline 423 (Acute Oral Toxicity – Acute Toxic Class Method)

Acute Dermal Toxicity LD50: >2000 mg/kg bw (rat)

OECD Guideline 402 (Acute Dermal Toxicity)

Acute Inhalation Toxicity No study performed as exposure is highly unlikely due to low vapor

pressure.

Skin Irritation/Corrosion Not an irritant per testing. Classification is according to CLP Harmonized

Classification.



OECD Guideline 405 (Acute Eye Irritation/Corrosion)

Eye Irritation/Corrosion Rabbit ca. 2(mean) (Time Point: 24, 48, and 72h) (fully reversible)

Skin Sensitization Not a sensitizer per testing. Classification is according to CLP Harmonized

Classification.

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ Cell Mutagenicity

in vitro: Negative; S. typhimurium Doses: 1-1000 □g/plate

Equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation

Assay)

in vivo: Negative; mouse and rat

C. Westmoreland and D.G. Gatehouse (1991)

Carcinogenicity Not a carcinogen

Borzelleca rat/mice

No component of this substance present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed carcinogen by IARC,

ACGIH, NTP or OSHA.

Reproductive toxicity oral NOAEL: 1000 mg/kg bw/day

OECD Guideline 421 (Reproduction/Developmental Toxicity Screening Test)

STOT: Single Exposure No information available.

STOT: Repeated Exposure No information available.

### 12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to Fish Fish (low toxicity to fish)

LC50: 100.8 mg/L Exposure time: 96 h

**Toxicity to Aquatic** 

Invertebrates

Daphnia (harmful to aquatic invertebrates)

EC50: 85.7 mg/L Exposure time: 48 h

Persistence and Degradability Readily Biodegradable

OECD Guideline 301D

Bioaccumulative Potential Due to the distribution coefficient n-octanol/water an accumulation in

organisms is not expected.

Mobility in Soil No further information available.

Other Information

Elimination COD removal, adapted activated OECD guideline

Sludge Assessment Readily biodegradable, according to appropriate OECD guideline

Water Solubility Results The substance is soluble in water



Results of PBT and VPVB

Assessment

PBT Not applicable vPvB Not applicable

**Ecotoxical Effects** 

Remark The substance is substantially removed in a biological treatment process.

Tests show that the inhibition of aerobic wastewater bacterial is unlikely.

Other Information Ecotoxicity: This environmental hazard assessment is based on information

available on similar substances and actual test.

Additional Ecological Information

General Notes Water hazard class 1 (German Regulation) (Self-assessment): slightly

hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground

water, water course or sewage system.

### 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods Dispose of according to local, state, and national guidelines. Must not be

disposed together with household garbage. Do not allow product to reach

sewage system.

### 14. TRANSPORT INFORMATION

Substance is not classified as dangerous for transportation.

#### 15. REGULATORY INFORMATION

CERCLA This material does not contain any chemical components with known CAS

numbers that exceed the threshold (De Minimis) reporting levels established

by CERCLA Title 40, Part 302.4.

SARA 311/312 Refer to Section 2 for OSHA Hazard Classification.

SARA 313 This material does not contain any chemical components with known CAS

numbers that exceed the threshold (De Minimis) reporting levels established

by SARA Title III, Section 313.

TSCA This substance is listed in the TSCA database.

California Proposition 65 This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

Chemical Safety Assessment A Chemical Safety Assessment has been carried out.

SEVESO Substance No.



### **16. OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of Last Revision April 1, 2023

Further Information All the information mentioned in this SDS are compliant with the

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH)

Abbreviations and Acronyms

EC50 Effective concentration, 50 percent

GHS Globally Harmonized System of Classification and Labelling of Chemicals

EINECS European Inventory of Existing Commercial Chemical Substances

CAS Chemical Abstracts Service (division of the American Chemical Society)

LC50 Lethal concentration, 50 percent

LD50 Lethal dose, 50 percent

Annexes

Annex 1 Exposure Scenario 1 – Manufacturing

Annex 2 Exposure Scenario 1 – Manufacturing of Fine Chemicals

Annex 3 Exposure Scenario 1 – Formulation



Annex 1: Exposure Scenario 1 - Manufacturing

7 tillox 11 Exposure Goong			
PROCESS	DURATION	RESPIRATORY PROTECTION	FURTHER RISK MANAGEMENT MEASURES
PROC 1: Use in a closed process, no likelihood of exposure	> 4 hours (default)	No	No
PROC 2: Use in a closed, continuous process with occasional controlled exposure	> 4 hours (default)	No	No
PROC 3: Use in a closed batch process (synthesis or formulation)	> 4 hours (default)	No	No
PROC 4: Use in a batch and other process (synthesis) where opportunity for exposure arises	> 4 hours (default)	90%	Gloves: 80% effective
PROC 8A: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	1 – 4 hours	90%	Gloves: 80% effective
PROC 8B: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	> 4 hours (default)	90%	Gloves: 80% effective

Setting – Industrial; Form – Solid; Dustiness – High; Ventilation – Indoor w/o LEV;

Annex 2: Exposure Scenario 2 - Manufacturing of Fine Chemicals

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PROCESS	DURATION	RESPIRATORY PROTECTION	FURTHER RISK MANAGEMENT MEASURES
PROC 3: Use in a closed batch process (synthesis or formulation)	> 4 hours (default)	No	No
PROC 4: Use in a batch and other process (synthesis) where opportunity for exposure arises	> 4 hours (default)	No	No
PROC 15: Use of laboratory reagents in small scale laboratories	> 4 hours (default)	No	No

Setting – Industrial; Form – Solid; Dustiness – High; Ventilation – Indoor w/o LEV;

Annex 3: Exposure Scenario 3 – Formulation

Author of Exposure Contains of Tormalation					
PROCESS	DURATION	RESPIRATORY	FURTHER RISK		
		PROTECTION	MANAGEMENT		
			MEASURES		
PROC 4: Use in a batch and other process (synthesis) where opportunity for exposure arises	> 4 hours (default)	90%	Gloves: 80% effective		