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Prepared By: Harlan Hendrick Administrative Control: Administrative Controller	Instruction No. SDS-003 SULFANILIC ACID	Issue No: 1 Issue Date: 6/1/15 Page 1 of 12

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

TRADE NAME: Sulfanilic Acid

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

USAGE: Industrial intermediates for the synthesis of organic chemicals

1.3 DETAILS OF THE SUPPLIER OF SAFETY DATA SHEET

MANUFACTURER: NATION FORD CHEMICAL COMPANY
2300 Banks Street
Fort Mill, South Carolina 29715
United States of America

EMAIL: INFO@NATIONFORDCHEM.COM

PRODUCT INFO TELEPHONE: +1-803-548-3210

ONLY REPRESENTATIVE: REACH ChemAdvice GmbH
Am Marktplatz 5
D-65779 Kelkheim (Taunus)
Germany

EMAIL: INFO@REACH-CHEMADVICE.COM

PHONE: +49-6195-96-199-11

FAX: +49-6195-96-199-33

1.4 EMERGENCY TELEPHONE NUMBER

CHEMTREC: +1-800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION



2.1 CLASSIFICATION OF A SUBSTANCE OR MIXTURE

Classification in accordance with EC Directive 67/548/EEC.

CLASSIFICATION: Xi; Irritant

RISK PHRASES:
R36/38 Irritating to eyes and skin
R43 Sensitizing

Information concerning particular hazards for human and environment: Not applicable.

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

Skin Irritant: Category 2	H315
Eye Irritant: Category 2A	H319
Skin Sensitizer: Category 1	H317

2.2 LABEL ELEMENTS

Labelling in accordance to Regulation (EC) No 1272/2008 and 29CFR 1910 (OSHA).

HAZARD PICTOGRAMS



GHS07

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.
P321	Specific treatment (see supplemental first aid instructions on this label).
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	Not applicable
vPvB	Not applicable

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

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SUBSTANCE NAME: Sulfanilic Acid

CAS NUMBER: 121-57-3
EINECS NUMBER: 204-482-5
REACH REGISTRATION NUMBER: 01-2119541820-45-0000
INDEX NUMBER: 612-014-00-X

PURITY: 99+%

SYNONYMS: 4-Aminobenzenesulfonic acid
p-anilinesulfonic acid
Sulphanilic acid

SECTION 4 - FIRST AID MEASURES

4.1 DESCRIPTION OF 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).



4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in Section 11

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NOTE TO PHYSICIAN Symptomatic treatment and if possible contact poison specialist.

No further relevant information available.

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SECTION 5 – FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA Carbon Dioxide (CO₂)
Powder
Water Spray
Fight larger fires with water spray or alcohol resistant foam

UNSUITABLE EXTINGUISHING MEDIA Water with full jet

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The substance emits toxic fumes of carbon monoxide, carbon dioxide, and 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.

5.3 ADVICE FOR FIRE FIGHTERS

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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 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.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.



6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Protect against dust. Clear up spillages, transfer to a container for disposal. Wash the spillage area clean.

6.4 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.

SECTION 7 – HANDLING AND STORAGE

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7.1 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.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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.

7.3 SPECIFIC END USE(S)

See exposure scenarios in Annex 1, 2, & 3

SU9	Manufacture of fine chemicals
SU10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

DNEL VALUES



DERMAL (LONG TERM EXPOSURE) 3.33 mg/kg bw/day

INHALATION (LONG TERM EXPOSURE) 6.67 mg/m³

PNEC VALUES

PNEC _{aqua} (freshwater)	0.023 mg/L; Assessment factor 1000
PNEC _{aqua} (marine water)	0.0023 mg/L; Assessment factor 10000
PNEC _{aqua} (intermittent releases)	0.23 mg/L; Assessment factor 100
PNEC _{STP}	100 mg/L

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

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INGREDIENTS WITH LIMIT VALUES
THAT REQUIRE MONITORING AT
THE WORK PLACE:

Contains no substances with occupational exposure limits.

ADDITIONAL INFORMATION:

The lists valid during the making were used as basis.

8.2 EXPOSURE CONTROLS:

PERSONAL PROTECTIVE
EQUIPMENT GENERAL
PROTECTIVE AND HYGIENIC
MEASURES:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

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/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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Color	White to light gray powder
Form	Solid
Odour	Odourless
Odour threshold	Not determined
pH	2.5
Melting / Freezing Point	The substance decomposes before melting.

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Boiling point	The substance decomposes before boiling.
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gaseous)	Product is not flammable
Upper Explosion Limit	Not determined
Lower Explosion Limit	Not determined
Vapour Pressure	< 0.01 hPa
Density	1.862 g/cm ³
Solubility in / Miscibility with Water (20°C)	12 g/l (Value used in CSA)
Segregation coefficient (n-octanol/ water) at 25°C	-2.3 log POW
Ignition Temperature	
Decomposition Temperature	ca. 288 °C
Self-igniting	331 °C at 1013 hPa (Value used for CSA)
Danger of Explosion	No data available.
Dynamic Viscosity	Not applicable
Kinematic Viscosity	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

10.1 REACTIVITY

No data available.



10.2 CHEMICAL STABILITY

Stable at normal storage and handling conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4 CONDITIONS TO AVOID

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No data available.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizers, acids



10.6 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.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

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	Harmful; danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
Acute Oral Toxicity	LD ₅₀ : 2000 mg/kg bw (rat)
	OECD Guideline 423 (Acute Oral Toxicity – Acute Toxic Class Method)
Acute Dermal Toxicity	LD ₅₀ : 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
	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
	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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Germ Cell Metagenicity

in vitro:

Negative; *S. typhimurium* Doses: 1-1000 µg/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

SECTION 12 - ECOLOGICAL INFORMATION

12.1 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



12.2 PERSISTANCE AND DEGREDABILITY

Readily Biodegradable (Method: OECD Guideline 301D)

12.3 BIOACCUMULATIVE POTENTIAL

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

12.4 MOBILITY IN SOIL

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No further relative information available

Other Information

Elimination: COD Removal, adapted activated OECD test
Sludge Assessment: Readily biodegradable, according to appropriate OECD test.
Water Solubility Results: The substance is soluble in water.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

PBT Not applicable
vPvB Not applicable

12.6 OTHER ADVERSE EFFECTS No further relevant information available

ECOTOXICAL EFFECTS

Remark The substance is substantially removed in a biological treatment process. Tests show that the inhibition of aerobic waste water 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

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 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.



SECTION 14 - TRANSPORT INFORMATION

Substance is not classified as dangerous for transportation.

SECTION 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 Acute Health Hazard

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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

SECTION 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

June 1, 2015

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 2 – Manufacturing of fine chemicals
- Annex 3: Exposure Scenario 3 – Formulation

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Annex 1: Exposure Scenario 1 – Manufacturing

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

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

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