

SAFETY DATA SHEET Revision: 05/21/2021

In accordance with Regulation (EC) No.1907/2006, (EC) No.1272/2008 and (EC) No. 2015/830

SAFETY DATA SHEET

SpecWhite® NFA

(Ferulic Acid (Natural Sources))

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier :

Product Name: SpecWhite® NFA

1.2 Use of the substance/preparation/: Cosmetic

1.3 Details of the supplier of the safety data sheet

Manufactured By: Spec-Chem Industry Inc.
No.10 Wanshou Road(ShiLin Industrial Park)
Nanjing 211800, P.R.of China

Phone Number: 86-25-84523390, 84523391

Fax Number: 86-25-84520790, 84520791

Email: sc@specchemind.com

1.4 Emergency telephone: +8618651861021

2. HAZARDOUS IDENTIFICATION

According to Regulation (EC) No 1272/2008:

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazard

No data

3. COMPOSITION/INFORMATION ON INGREDIENT

3.1 Substance

NICI Name: Ferulic Acid

CAS No.: 1135-24-6

EC No.: 214-490-0

Composition%: ≤100%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes gently with water for at least 15 minutes while holding eyelids apart: seek immediate medical attention.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects

no data available

4.2 Indication of any immediate medical attention

no data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards arising from the substance or mixture

no data available

5.3 Advice for Fire Fighters

Wear protective clothing to prevent contact with skin and eyes.
Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions**

Avoid contact with skin and eyes

6.2 Environmental precautions

Do not empty into drains/surface water/ground water.

6.3 Methods and materials for containment and cleaning up

Remove with liquid-absorbing material(sand, peat, sawdust).

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Do not handle or use product until safety precautions recommended in the SDS have been read and fully understood. Avoid open flames. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROL PERSONAL PROTECTION

8.1 Control Parameters:No Data Available

8.2 Personal protective equipment

Respiratory protection

Respirator with organic vapor cartridge. Not applicable with adequate ventilation.

Hand protection

Protective gloves made of plastic or rubber.

Eye protection

Safety glasses with side shields

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	White or off- White powder
Odor	Rice bran oil-specific, no peculiar smell
Purity(HPLC)	Not less than 98.0%
Melting point:	No data available
Boiling point:	No data available
Decomposition temperature:	No data available
Flash Point:	No data available
Decomposition point:	No data available
Autoignition temperature:	No data available
Evaporation rate (N-butyl acetate =1):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Viscosity (25°C ,mPa.s):	No data available

9.2 Other Information

No additional information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no unusual reactivity

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatibilities material

Other Materials Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions-Carbon oxides.

Other decomposition products - no data available

II. TOXICOLOGICAL INFORMATION

11.1 information on toxicological information

Acute toxicity

The oral LD50 values in rats and mice are in the range of 2000 up to more than 5000 mg/kg body weight (bw). (low acute oral toxicity).

Other information on acute toxicity

Sub-chronic toxicity, oral, rat, feed

No effect was observed following an exposure of 4 week of 2% ferulic acid in diet. The NOAEL is therefore determined to be 2000 mg/kg bw/day (corresponding to the 2% ferulic acid in diet).

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

In vitro DNA damage and/or repair study, Chinese hamster Ovary (CHO)

The ferulic acid did not influence cell cycle (data not shown) and spontaneous SCEs at the concentrations used (0, 0.641, 1.94, 6.41, 19.4, 64.1 µg/ml)

Carcinogenicity

no data available

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

no data available

Signs and Symptoms of Exposure

no data available

Synergistic effects

no data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Short-term toxicity to fish:

Test at an initial concentration of 5 mg/L. Test were conducted for a 24-hour period at a water temperature of 55 deg. F.

With the Ferulic acid no effet were recorded after 24 h of exposure on larvae of the Sea lamprey (*Petromyzon marinus*) or on rainbow trout or on bluegill sunfish.

Short-term toxicity to aquatic invertebrates:

The 96h LC50 of different snail attractant pellets (SAP) containing umbelliferone (96h LC50- 0.93%), limonene (96h LC50- 0.74%) was higher than of eugenol and ferulic acid 1.03%, 1.17%, respectively.

Toxicity to aquatic algae and cyanobacteria:

For the Species: *Pseudokirchneriella subcapitata*; *Pediastrum simplex*; *Anabaena* sp., the LOEC (5 d) was found to be 194 mg/L (1000 µM) based on the population growth rate.

For the Species: *Oscillatoria chalybea*, the LOEC (5 d) was 0.194 mg/L (1 µM) based on the population growth rate.

Toxicity to aquatic plants other than algae:

After a seven-day test ferulic acid (FA) with a concentration of 0.05 mM (9.7 mg/L) significantly reduced the number of fronds and the dry weight compared with the untreated control when the stock-culture period had been exactly 14 days.

12.2 Persistence and degradability

Ready biodegradability: The purpose of this study was to investigate the theoretical degradation by conversion to CO₂ in 24 days, employing a mixed inoculum obtained from sludge. The degradation is 86% at 24 days, readily biodegradable.

12.3 Bioaccumulative potential

12.4 Mobility in soil

no data available

12.5 PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATION

13.1 Waste treatment method

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. 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. TRANSPROT INFORMATION

14.1 UN number:

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EC) No 1272/2008.

15.2 Chemical Safety Assessment

No data

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SPEC CHEM IND shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

End of SDS