

Issue Date 14-Jul-2015

Revision Date 14-Jul-2015

Version 1

UF-302

UltraFiber 302 Blend

1. IDENTIFICATION**Product identifier****Product Name** UltraFiber 302 Blend**Other means of identification****Product Code** UF-302**Recommended use of the chemical and restrictions on use****Recommended Use** Restricted to professional users.**Uses advised against** Consumer use**Details of the supplier of the safety data sheet****Supplier Address**Solomon Colors, Inc.
4050 Color Plant Road
Springfield, IL 62702**Manufacturer Address**Solomon Colors, Inc.
4050 Color Plant Road
Springfield, IL 62702**Company Phone Number** 800-624-0261 (US & Canada); 217-522-3112 (Outside North America)**24 Hour Emergency Phone Number** 800-373-7542**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4.
Skin sensitization	Category 1
Carcinogenicity	Category 1A

Label elements**Emergency Overview****Danger****Hazard statements**

Suspected of causing cancer

Suspected of damaging fertility or the unborn child

Causes damage to lungs and central nervous system through prolonged or repeated inhalation exposure.

Harmful if swallowed

May cause an allergic skin reaction

Harmful in contact with skin

May be irritating to skin, eyes and respiratory system.

Cellulose dust might be generated during handling. Cellulose dust may form explosive dust-air mixtures.

Wash thoroughly after handling.



The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Metallic Grey/White
rectangular squares

Physical state Solid

Odor Odorless

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage

Store in accordance with local regulations

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

• Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Iron	7439-89-6	70-95	*
Cellulose Pulp	65996-61-4	5-25	*
Silicon	7440-21-3	0-3	*
Manganese	7439-96-5	0.05-2	*
Trade Secret	Proprietary	0-3	*
Carbon	7440-44-0	0.001-1	*
Titanium	7440-32-6	0.1-1.25	*
Nickel	7440-02-0	0-1.8	*
Chromium	7440-47-3	0-1	*
Copper	7440-50-8	0-1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	(Get medical attention immediately if symptoms occur.)
Ingestion	If swallowed, call a poison control center or physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
-----------------	---------------------------

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Dusts or fumes may form explosive mixtures in air.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas.
-----------------------------	--

Environmental precautions

Environmental precautions	See Section 12 for additional ecological information.
----------------------------------	---

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

As sold/shipped in its physical form does not present an inhalation, ingestion or contact hazard, nor would any of the following exposure data apply. However, operations such as burning, welding (high temperature), sawing, brazing, machining, grinding, etc. may produce fumes and/or particulates and in those cases the exposure limits listed below would apply.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silicon 7440-21-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Manganese 7439-96-5	TWA: 0.02 mg/m ³ Mn TWA: 0.1 mg/m ³ Mn	(vacated) TWA: 1 mg/m ³ fume (vacated) STEL: 3 mg/m ³ fume (vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn	IDLH: 500 mg/m ³ Mn TWA: 1 mg/m ³ Mn STEL: 3 mg/m ³ Mn
Nickel 7440-02-0	TWA: 1.5 mg/m ³ inhalable fraction	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³	IDLH: 10 mg/m ³ Ni TWA: 0.015 mg/m ³ except Nickel carbonyl Ni
Chromium 7440-47-3	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³	IDLH: 250 mg/m ³ TWA: 0.5 mg/m ³
Copper 7440-50-8	TWA: 1 mg/m ³ Cu dust and mist	TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ dust and mist (vacated) TWA: 0.1 mg/m ³ Cu dust, fume, mist	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Solid

Appearance

Metallic Grey/White rectangular squares

Odor

Odorless

Color

Metallic Grey/White Mix

Odor threshold

No information available

Property pH

Values

No information available

Remarks • Method

Melting point/freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	See Remarks

Cellulosic fiber ignition temperature is expected to be about 400°C. This expectation is based on the chemical similarity among cellulose, cotton fibers, and viscose rayon fibers. Reported ignition temperatures for cotton and rayon fibers are 390-400°C and 420°C, respectively (Polymer Handbook, Brandrup and Immergut (eds.), 2nd edition, page V-96, 1975).

Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.5
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	Thermal decomposition 200 - 270°C (392 - 518°F)
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	Cellulose minimum explosive concentration is 0.055 oz/ft ³ (55 g/m ³), and explosivity indices for cellulose dusts range from weak (<0.1) for raw cotton linters to severe (>10) for ground cotton flock. Variables that affect explosivity include dust concentration, fiber length, heating rate, and moisture content. Data are from Explosivity Of Dusts Used In the Plastics Industry, report of investigations 5971, U.S. Department Of Interior, Bureau Of Mines.

Oxidizing properties No information available

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization	Hazardous polymerization does not occur.
---------------------------------	--

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron 7439-89-6	= 984 mg/kg (Rat)	-	-
Silicon 7440-21-3	= 3160 mg/kg (Rat)	-	-
Manganese 7439-96-5	= 9 g/kg (Rat)	-	-
Carbon 7440-44-0	> 10000 mg/kg (Rat)	-	-
Nickel 7440-02-0	> 9000 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Nickel 7440-02-0	-	Group 1	Known	X
Chromium 7440-47-3	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Not classifiable as a human carcinogen

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic toxicity May cause adverse effects on the bone marrow and blood-forming system.

Target Organ Effects blood, Central nervous system, Eyes, kidney, Respiratory system, Skin.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1011 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Iron 7439-89-6	-	13.6: 96 h <i>Morone saxatilis</i> mg/L LC50 static	-
Nickel 7440-02-0	0.18: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 0.174 - 0.311: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static	100: 96 h <i>Brachydanio rerio</i> mg/L LC50 1.3: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static 10.4: 96 h <i>Cyprinus carpio</i> mg/L LC50 static	100: 48 h <i>Daphnia magna</i> mg/L EC50 1: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Copper 7440-50-8	0.0426 - 0.0535: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static 0.031 - 0.054: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static	0.0068 - 0.0156: 96 h <i>Pimephales promelas</i> mg/L LC50 0.3: 96 h <i>Pimephales promelas</i> mg/L LC50 static 0.2: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 0.052: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 1.25: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.3: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static 0.8: 96 h <i>Cyprinus carpio</i> mg/L LC50 static 0.112: 96 h <i>Poecilia reticulata</i> mg/L LC50 flow-through	0.03: 48 h <i>Daphnia magna</i> mg/L EC50 Static

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Nickel 7440-02-0	-	Included in waste streams: F006, F039	-	-
Chromium 7440-47-3	-	Included in waste streams: F032, F034, F035, F037, F038, F039	5.0 mg/L regulatory level	-

Chemical Name	California Hazardous Waste Status
Manganese 7439-96-5	Ignitable powder
Titanium 7440-32-6	Ignitable powder
Nickel 7440-02-0	Toxic powder Ignitable powder
Chromium 7440-47-3	Toxic Corrosive Ignitable
Copper 7440-50-8	Toxic

14. TRANSPORT INFORMATION

DOT

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Manganese - 7439-96-5	1.0
Nickel - 7440-02-0	0.1
Chromium - 7440-47-3	1.0
Copper - 7440-50-8	1.0

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nickel 7440-02-0	-	X	X	-
Chromium 7440-47-3	-	X	X	-
Copper 7440-50-8	-	X	X	-

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Nickel 7440-02-0	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ
Chromium 7440-47-3	10 lb	-	RQ 10 lb final RQ RQ 4.54 kg final RQ
Copper 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

