Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier
981CP Cubitron II Fiber Disc

Product Identification Numbers

IA-1100-6816-9	IA-1100-6817-7	IA-1100-6818-5	IA-1100-6819-3	IA-1100-6820-1
IA-1100-6821-9	IA-1100-6822-7	IA-1100-6823-5	IA-1100-6824-3	

1.2. Recommended use and restrictions on use

Recommended use
Grinding, metal grinding or finishing application

1.3. Supplier's details
Address: 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone: 080-45543000, contact Product EHS team
E Mail: productehs.in@mmm.com
Website: http://solutions.3mindia.co.in

1.4. Emergency telephone number
080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture
Carcinogenicity: Category 2.
Specific Target Organ Toxicity (repeated exposure): Category 1.
Acute Aquatic Toxicity: Category 3.
Chronic Aquatic Toxicity: Category 3.

2.2. Label elements
Signal Word
DANGER!

Symbols
Health Hazard |

Pictograms

HAZARD STATEMENTS:

H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure: musculoskeletal system |
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280E	Wear protective gloves.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Fiber backing	None	40 - 50
3M PSG Minerals	Trade Secret	20 - 30
Cured Phenolic Resin	9003-35-4	10 - 20
Inorganic Filler	15096-52-3	1 - 5
Pigment	Trade Secret	< 0.5
Zinc Chloride	7646-85-7	< 0.1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If swallowed
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable Extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Toxic vapour, gas, particulate.	During combustion.

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Observe precautions from other sections. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid breathing of dust created by sanding, grinding or machining. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Aluminum, insoluble compounds	15096-52-3	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Fluorides	15096-52-3	ACGIH	TWA(as F):2.5 mg/m3	A4: Not class. as human carcin
Zinc Chloride	7646-85-7	ACGIH	TWA(as fume):1 mg/m3;STEL(as fume):2 mg/m3	
3M PSG Minerals	Trade Secret	ACGIH	TWA(inhalable particulates):10 mg/m3	
3M PSG Minerals	Trade Secret	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
3M PSG Minerals	Trade Secret	ACGIH	TWA(respirable particles):3 mg/m3	
Pigment	Trade Secret	ACGIH	TWA(inhalable fraction):3 mg/m3	A3: Confirmed animal carcin.

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Provide appropriate local exhaust ventilation for sanding, grinding or machining. Warning: Excessive operating speed or generation of extreme heat may result in harmful emissions. Use local exhaust ventilation.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

To minimise the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety glasses with side shields.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Wear appropriate gloves to minimise risk of injury to skin from contact with dust or physical abrasion from grinding or sanding.

Gloves made from the following material(s) are recommended: Nitrile rubber.

Respiratory protection

Assess exposure concentrations of all materials involved in the work process. Consider material being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation overexposure.
An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	sheet/disc
Color	Pale Green
Odor	Odourless
Odour threshold	*Not applicable.*
pH	*Not applicable.*
Melting point/Freezing point: NA	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	*Not applicable.*
Flash point	*Not applicable.*
Evaporation rate	*Not applicable.*
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*Not applicable.*
Vapor Density and/or Relative Vapor Density	*Not applicable.*
Density	*Not applicable.*
Relative density	*Not applicable.*
Water solubility	*Not applicable.*
Solubility- non-water	*Not applicable.*
Partition coefficient: n-octanol/water	*Not applicable.*
Autoignition temperature	*Not applicable.*
Decomposition temperature	*Not applicable.*
Viscosity/Kinematic Viscosity	*Not applicable.*
Volatile organic compounds (VOC)	
Percent volatile	
VOC less H2O & exempt solvents	

Nanoparticles
This material contains nanoparticles.

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Not determined

10.5 Incompatible materials
Not determined

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain. May cause additional health effects (see below).

Skin contact
Mechanical skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

Eye contact
Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion
Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:
Hard tissue effects: Signs/symptoms may include colour changes in the teeth and nails, changes in development of bone, teeth or nails, weakening of the bones, and hair loss.

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

Additional information:
- This document covers only the 3M product. For complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
3M PSG Minerals	Dermal		LD50 estimated to be > 5,000 mg/kg
3M PSG Minerals	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
3M PSG Minerals	Ingestion	Rat	LD50 > 5,000 mg/kg
Cured Phenolic Resin	Dermal	Rat	LD50 > 2,000 mg/kg
Cured Phenolic Resin	Ingestion	Rat	LD50 > 2,900 mg/kg
Inorganic Filler	Dermal	Rabbit	LD50 > 2,100 mg/kg
Inorganic Filler	Inhalation-Dust/Mist (4 hours)	Rat	LC50 4.5 mg/l
Inorganic Filler	Ingestion	Rat	LD50 5,000 mg/kg
Pigment	Dermal	Rabbit	LD50 > 3,000 mg/kg
Pigment	Ingestion	Rat	LD50 > 8,000 mg/kg
Zinc Chloride	Ingestion	Rat	LD50 1,101 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
3M PSG Minerals	Rabbit	No significant irritation
Cured Phenolic Resin	Human and animal	Mild irritant
Inorganic Filler	Multiple animal species	No significant irritation
Pigment	Rabbit	No significant irritation
Zinc Chloride	official classification	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
3M PSG Minerals	Rabbit	No significant irritation
Cured Phenolic Resin	Human and animal	Moderate irritant
Inorganic Filler	Rabbit	Mild irritant
Pigment	Rabbit	No significant irritation
Zinc Chloride	official classificat	Corrosive

	ion	

Sensitization:

Skin Sensitisation

Name	Species	Value
Cured Phenolic Resin	Human and animal	Sensitising

Respiratory Sensitisation

Name	Species	Value
Cured Phenolic Resin	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
3M PSG Minerals	In Vitro	Not mutagenic
Pigment	In Vitro	Not mutagenic
Pigment	In vivo	Some positive data exist, but the data are not sufficient for classification
Zinc Chloride	In Vitro	Some positive data exist, but the data are not sufficient for classification
Zinc Chloride	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
3M PSG Minerals	Inhalation	Rat	Not carcinogenic
Pigment	Dermal	Mouse	Not carcinogenic
Pigment	Ingestion	Mouse	Not carcinogenic
Pigment	Inhalation	Rat	Carcinogenic.
Zinc Chloride	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Zinc Chloride	Ingestion	Not classified for female reproduction	Rat	NOAEL 60 mg/kg	1 generation
Zinc Chloride	Ingestion	Not classified for male reproduction	Rat	NOAEL 60 mg/kg	1 generation
Zinc Chloride	Ingestion	Not classified for development	Rat	NOAEL 60 mg/kg/day	1 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Cured Phenolic Resin	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Zinc Chloride	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Not available	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
3M PSG Minerals	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
3M PSG Minerals	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Cured Phenolic Resin	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Inorganic Filler	Inhalation	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.0005 mg/l	5 months
Inorganic Filler	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.00021 mg/l	90 days
Inorganic Filler	Ingestion	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.58 mg/kg/day	14 weeks
Pigment	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
Zinc Chloride	Ingestion	hematopoietic system	Not classified	Rat	LOAEL 25 mg/kg/day	4 weeks

Aspiration Hazard
For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:
GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
3M PSG Minerals	Trade Secret		Experimental	96 hours	LC50	>100 mg/l
3M PSG Minerals	Trade Secret	Green algae	Experimental	72 hours	EC50	>100 mg/l
3M PSG Minerals	Trade Secret	Water flea	Experimental	48 hours	LC50	>100 mg/l
3M PSG Minerals	Trade Secret	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Cured Phenolic Resin	9003-35-4		Data not available or insufficient for classification			n/a

Inorganic Filler	15096-52-3	Activated sludge	Experimental	3 hours	EC50	>160 mg/l
Inorganic Filler	15096-52-3	Green Algae	Experimental	72 hours	EC50	8.8 mg/l
Inorganic Filler	15096-52-3	Rainbow trout	Experimental	96 hours	LC50	42.5 mg/l
Inorganic Filler	15096-52-3	Water flea	Experimental	48 hours	EC50	5 mg/l
Inorganic Filler	15096-52-3	Green Algae	Experimental	72 hours	NOEC	1 mg/l
Pigment	Trade Secret	Activated sludge	Experimental	3 hours	EC50	>=100 mg/l
Pigment	Trade Secret		Data not available or insufficient for classification			N/A
Zinc Chloride	7646-85-7	Green Algae	Analogous Compound	72 hours	EC50	0.088 mg/l
Zinc Chloride	7646-85-7	Rainbow trout	Analogous Compound	96 hours	LC50	0.35 mg/l
Zinc Chloride	7646-85-7	Water flea	Analogous Compound	48 hours	EC50	0.125 mg/l
Zinc Chloride	7646-85-7	Algae other	Analogous Compound	72 hours	NOEC	0.021 mg/l
Zinc Chloride	7646-85-7	Crustacea other	Analogous Compound	24 days	NOEC	0.012 mg/l
Zinc Chloride	7646-85-7	Fish other	Analogous Compound	27 days	NOEC	0.05 mg/l
Zinc Chloride	7646-85-7	Green Algae	Analogous Compound	72 hours	NOEC	0.01 mg/l
Zinc Chloride	7646-85-7	Rainbow trout	Analogous Compound	30 days	NOEC	0.08 mg/l
Zinc Chloride	7646-85-7	Water flea	Analogous Compound	7 days	NOEC	0.027 mg/l
Zinc Chloride	7646-85-7	Activated sludge	Analogous Compound	3 hours	EC50	10.8 mg/l
Zinc Chloride	7646-85-7	Activated sludge	Analogous Compound	4 hours	IC50	0.73 mg/l
Zinc Chloride	7646-85-7	Red Clover	Experimental	24 days	NOEC	66.7 mg/kg (Dry Weight)
Zinc Chloride	7646-85-7	Springtail	Experimental	28 days	EC10	30.4 mg/kg (Dry Weight)
Zinc Chloride	7646-85-7	White worm	Experimental	42 days	EC10	74.4 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
3M PSG Minerals	Trade Secret	Data not available-insufficient			N/A	
Cured Phenolic Resin	9003-35-4	Estimated Biodegradation	28 days	BOD	3 % BOD/ThBOD	
Inorganic Filler	15096-52-3	Data not available-insufficient			N/A	
Pigment	Trade Secret	Data not available-			N/A	

		insufficient				
Zinc Chloride	7646-85-7	Data not available-insufficient			N/A	

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
3M PSG Minerals	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Cured Phenolic Resin	9003-35-4	Estimated Bioconcentration		Bioaccumulation factor	2.57	
Inorganic Filler	15096-52-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Pigment	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Zinc Chloride	7646-85-7	Experimental BCF-Carp	70 days	Bioaccumulation factor	230-457	

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

The substrate that was abraded must be considered as a factor in the disposal method for this product. Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

Not hazardous for transportation.

Air Transport (IATA)Regulations

UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable

Subsidiary Risk Not applicable
Packing Group: Not applicable

Marine Transport (IMDG)
UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989
Hazardous Waste(Management , Handling & Transboundary) Rules, 2008
Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
Product is classified as Non Hazardous as per MSIHC Rules, 1989.

SECTION 16: Other information

NFPA Hazard Classification
Health: 1 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
No revision information

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3M India SDSs are available at http://solutions.3mindia.co.in