

Radio Shack #28-142 Vitamin C Detect Powder

Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)

IDENTITY (As Used on Label and List)
Vitamin C Detect Powder

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available the space must be marked to indicate that.

Section I

Manufacturer's Name NIPPON FINE CHEMICAL CO., LTD	Emergency Telephone Number 03-3241-0471
Address (Number, Street, City, State, and ZIP Code) 3-1-13 NIHONBASHI HONCHO	Telephone Number for information 03-3241-0471
CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer <i>Gulsh Tager</i>

Section II - Hazardous ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended (optional)
TALC		0.282g 94%	
INDOPHENOL		0.03g 1%	
CALUCIUM STEARATE		0.06g 2%	
POLYVINYL PYRROLIDONE K30		0.09g 3%	
FORMULA : C12 H6Cl.2N NaO2			

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O=1)	N/A
Vapor Pressure(mmHg)	N/A	Melting Point	N/A
Vapor Density(AIR=1)	N/A	Evaporation Rate (Butyl Acetate=1)	N/A
Solubility in Water	SOLUBLE		
Appearance and Odor	BLUE TABLET		

Section IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	N/A	Flammable Limits	LEL	UEL
Extinguishing Media	N/A			
Special Fire Fighting Procedures	N/A			

Unusual Fire and Explosion Hazards

NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable X X	

Incompatibility (Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur X X	

Section VI - Health Hazard Data

Route(s) of Entry: Inhalationf Skinf Ingestionf

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity: N/A NTPf IARC Monographsf OSHA Regulatedf

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHOD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)
N/A

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves NOT NECESSARY Eye Protection NOT NECESSARY

Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 Calcium Measuring Solution .

Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)

IDENTITY (As Used on Label) and List
Calcium Measuring Solution
 Section I

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available the space must be marked to indicate that.

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Address (Number, Street, City, State, and ZIP Code) 3-1-13 NIHONBASHI HONCHO	Telephone Number for information 03-3241-0471
CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer <i>Gaku Tagami</i>

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLY	Other Limits Recommended (optional)
AMMONIUM OXALATE		1%	
SOLVENTS : WATER		99%	
FORMULA : (NH4) 2C2O4			

Section III - Physical/Chemical Characteristics

Boiling Point	212 ° F	Specific Gravity (H ₂ O=1)	N/A
Vapor Pressure(mmHg)	N/A	Melting Point	N/A
Vapor Density(AIR=1)	N/A	Evaporation Rate (Butyl Acetate=1)	N/A

Solubility in Water
SOLUBLE

Appearance and Odor
COLORLESS SOLUTION

Section IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	N/A	Flammable Limits	LEL	UEL
Extinguishing Media	N/A			
Special Fire Fighting Procedures	N/A			

Unusual Fire and Explosion Hazards

NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable X X	

Incompatibility (Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur X X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation	Skin	Ingestion
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Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity:	N/A NTP	IARC Monographs	OSHA Regulated
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Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions

Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHOD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves	NOT NECESSARY	Eye Protection	NOT NECESSARY
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Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 PH Measuring Solution

Material Safety Data Sheet
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 OSHA's Hazard Communication Standard.
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)

IDENTITY (As Used on Label) and List
PH Measuring Solution
 Section I

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CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer <i>[Handwritten Signature]</i>

Section II - Hazardous ingredients/identity information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLY	Other Limits Recommended (optional)
METHYLY RED SODIUM SALT		0.02 %	
BROMOTHYMOL BLUE SODIUM SALT		0.062 %	
PHEROLPHTHALEIN SODIUM SALT		0.07 %	
SOLVENTS: WATER		99.848 %	

Section III - Physical/Chemical Characteristics

Boiling Point	212 ° F	Specific Gravity (H ₂ O-1)	N/A
Vapor Pressure(mmHg)	N/A	Melting Point	N/A
Vapor Density(AIR-1)	N/A	Evaporation Rate (Butyl Acetate-1)	N/A

Solubility in Water
SOLUBLE

Appearance and Odor
BLUE PURPLE SOLUTION

Section IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	N/A	Flammable Limits	LEL	UEL
Extinguishing Media	N/A			
Special Fire Fighting Procedures	N/A			

Unusual Fire and Explosion Hazards
NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable X X		

Incompatibility (Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation Skin Ingestion

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions

Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHOD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves NOT NECESSARY Eye Protection NOT NECESSARY

Other Protective Clothing or Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 Salt Measuring Solution

Material Safety Data Sheet
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 29 CFR 1910.1200. Standard must be
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U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)

IDENTITY (As Used on Label and List) **Salt Measuring Solution**
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Section I

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CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer <i>Shigeru Taguchi</i>

Section II - Hazardous ingredients/identity information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLY	Other Limits Recommended (optional)
SILVER NITRATE		0 . 1%	
SOLVENTS : WATER		99 . 9%	
FORMULA : Ag NO3			

Section III - Physical/Chemical Characteristics

Boiling Point	212 ° F	Specific Gravity (H ₂ O=1)	N/A
Vapor Pressure(mmHg)	N/A	Melting Point	N/A
Vapor Density(AIR=1)	N/A	Evaporation Rate (Butyl Acetate=1)	N/A
Solubility in Water	SOLUBLE		
Appearance and Odor	COLORLESS SOLUTION		

Section IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	N/A	Flammable Limits	LEL	UEL
Extinguishing Media	N/A			
Special Fire Fighting Procedures	N/A			

Unusual Fire and Explosion Hazards
NON USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Radio Shack #28-142 Salt Measuring Solution

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable X X	

Incompatibility (Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur X X	

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHOD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves NOT NECESSARY Eye Protection NOT NECESSARY

Other Protective Clothing or Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 Soft/Hard Water Judging Powder

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable X X		

Incompatibility (Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions

Generally Aggravated by Exposure

NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHOD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves NOT NECESSARY Eye Protection NOT NECESSARY

Other Protective Clothing or Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR

Radio Shack #28-142 Iron Measuring Solution

Material Safety Data Sheet
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 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)

IDENTITY (As Used on Label and List)
Iron Measuring Solution

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Section I

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CHUO-KU TOKYO CITY	Date Prepared
JAPAN 103	Signature of Preparer <i>[Signature]</i>

Section II - Hazardous ingredients/Identity Information

Hazardous Components (Specific Chemical Identity Common Name(s))	OSHA PEL	ACGIH TLY	Other Limits Recommended (optional)
POTASSIUM FERROCYANIDE		1%	
SOLVENTS : WATER		99%	
FORMULA : $K_4 Fe (CN)_6 \cdot 3H_2 O$			

Section III - Physical/Chemical Characteristics

Boiling Point	212 ° F	Specific Gravity (H ₂ O=1)	N/A
Vapor Pressure(mmHg)	N/A	Melting Point	N/A
Vapor Density(AIR=1)	N/A	Evaporation Rate (Butyl Acetate=1)	N/A

Solubility in Water
SOLUBLE

Appearance and Odor
COLORLESS SOLUTION

Section IV - Fire and Explosion Hazard Data

Flash Point(Method Used)	N/A	Flammable Limits	LEL	UEL
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Extinguishing Media
N/A

Special Fire Fighting Procedures
N/A

Unusual Fire and Explosion Hazards

NON. USED FLAMEABLE OR EXPLOSIVE MATERIAL

(Reproduce locally)

Radio Shack #28-142 Iron Measuring Solution

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable X X		

Incompatibility (Materials to Avoid)

NON USED UNSTABLE MATERIAL

Hazardous Decompositions or Byproducts

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur X X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation) Skin) Ingestion)

Health Hazards (Acute and Chronic)

NON SPECIAL HAZARDS IF DRINK SOLUTION OR TABLET DRINK MUCH WATER

Carcinogenicity: N/A NTP) IARC Monographs) OSHA Regulated)

Signs and Symptoms of Exposure

NON ANY SIGNS AND SYMPTONS

Medical Conditions

Generally Aggravated by Exposure
NONE

Emergency and First Aid Procedures

WASH OUT LIQUID WITH WATER

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

WASH OUT RELEASED OR SPILLED LIQUID WITH WATER

Waste Disposal Method

NON SPECIAL DISPOSAL METHOD

Precautions to Be Taken in Handling and Storing

NON SPECIAL PRECAUTIONS

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)
N/A

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves NOT NECESSARY Eye Protection NOT NECESSARY

Other Protective Clothing of Equipment

Work/Hygienic Practices NOTHING IN PARTICULAR